

Volvo Bi-Fuel

vcc.volvocars.se/bifuel/index.htm

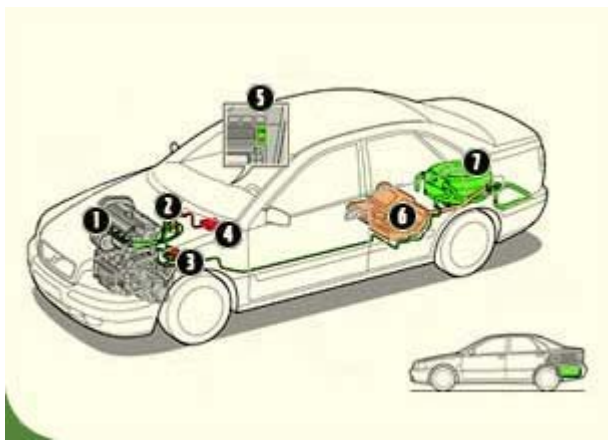
Volvo Bi-Fuel LPG

LPG Tanks Require Less Space

LPG becomes liquid at low pressure. LPG therefore requires less tank volume than CNG (for the same driving distance). In the LPG version, the new Volvo models have only one large gas tank. The CNG versions have one large and two small tanks. It takes between two and four minutes to refuel a gas car (applies to both LPG and CNG).

The type of nozzle for refueling LPG can vary from country to country. Two adapters for refuelling accompany every LPG car, to make things easier when travelling abroad.

VOLVO S40/V40 LPG/petrol



1. Gas injectors
2. Gas distributor
3. Pressure regulator
4. ECU (Engine Control Unit)
5. Gas/Petrol switch
6. Petrol tank
7. Gas Tank under boot floor (LPG)

Figures in parenthesis apply for Belgium and France.

Engine type

Transverse 1.8-litre four-cylinder Bi-Fuel liquified petroleum gas (LPG)/petrol engine with sixteen valves and variable timing on the inlet side.

Maximum power

LPG: 120 bhp at 5800 rpm (116 bhp at 5500 rpm)
 Petrol: 122 bhp at 5800 rpm (116 bhp at 5500 rpm)

Maximum torque

LPG: 167 Nm, 4000 rpm (167 Nm, 4000 rpm)
 Petrol: 170 Nm, 4000 rpm (170 Nm, 4000 rpm)

Maximum speed

LPG: 200 km/h (195 km/h)
 Petrol: 200 km/h (195 km/h)

Acceleration 0-100 km/h

LPG: 11.0 seconds (11.4 seconds)
 Petrol: 10.5 seconds (10.8 seconds)

Range on full tank

LPG: 385 km (385 km)
 Petrol: 741 km (750 km)

Fuel consumption l/100 km

LPG, mixed driving: 10.4 (10.4)
 Petrol, mixed driving: 8.1 (8.0)

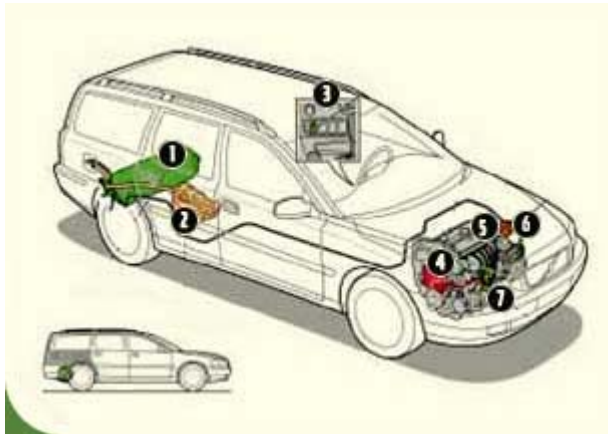
CO2 emission, g/km

LPG: 168 (168)

Petrol: 193 (187)

Transmission

Five-speed manual

VOLVO V70 LPG/petrol

1. Gas tank
2. Petrol tank
3. Gas/Petrol switch
4. Gas control unit
5. Gas injector
6. Pressure regulator
7. Fuel distributor for gas

Engine type

Transverse 2.4-litre five-cylinder Bi-Fuel liquified petroleum gas (LPG)/petrol engine with twenty valves and variable timing on the inlet side.

Maximum power

LPG: 140 bhp at 5100 rpm

Petrol: 140 bhp at 4500 rpm

Maximum torque

LPG: 214 Nm at 4500 rpm

Petrol: 220 Nm at 3750 rpm

Maximum speed

LPG, man/auto: 205/200 km/h

Petrol, man/auto: 205/200 km/h

Acceleration 0-100 km/h

LPG, man/auto: 10.6/11.5 seconds

Petrol, man/auto: 10.5/11.4 seconds

Range on full tank*

LPG, man/auto: 410/368 km

Petrol, man/auto: 319/284 km

Fuel consumption l/100 km*

LPG, man/auto: 12.2/13.6 (mixed driving)

Petrol, man/auto: 9.1/10.2 (mixed driving)

CO2 emission, g/km*

LPG, man/auto: 197/221

Petrol, man/auto: 219/244

Transmission

Five-speed manual or five-speed adaptive automatic

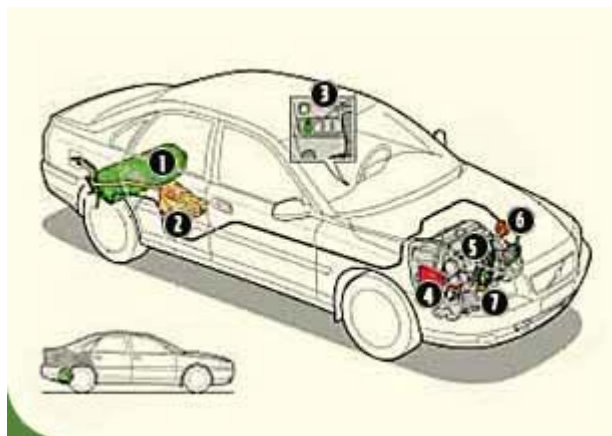
Special standard equipment

Automatic levelling, 16-inch wheels

*)Above shown values for fuel consumption, CO2 emissions, and range on full tank are based upon official certification values for heaviest possible car with all conceivable options. A large share of the cars produced will, however, end up in a lower inertia weight class with about 1,5 % lower CO2 and fuel consumption values, and about 1,5 % increased range.

*Information on this page updated Oct 15, 2001.
Volvo reserve the right to change
product specifications at any time.*

VOLVO S80 LPG/petrol



1. Gas tank
2. Petrol tank
3. Gas/Petrol switch
4. Gas control unit
5. Gas injector
6. Pressure regulator
7. Fuel distributor for gas

Engine type

Transverse 2.4-litre five-cylinder Bi-Fuel liquified petroleum gas (LPG)/petrol engine with twenty valves and variable timing on the inlet side.

Maximum power

LPG: 140 bhp at 5100 rpm
Petrol: 140 bhp at 4500 rpm

Maximum torque

LPG: 214 Nm at 4500 rpm
Petrol: 220 Nm at 3750 rpm

Maximum speed

LPG, man/auto: 205/200 km/h
Petrol, man/auto: 205/200 km/h

Acceleration 0-100 km/h

LPG, man/auto: 10.6/11.5 seconds
Petrol, man/auto: 10.5/11.4 seconds

Range on full tank*

LPG, man/auto: 431/376 km
Petrol, man/auto: 326/290 km

Fuel consumption l/100 km*

LPG, man/auto: 11.6/13.3 (mixed driving)
Petrol, man/auto: 8.9/10.0 (mixed driving)

CO2 emission, g/km*

LPG, man/auto: 187/215
Petrol, man/auto: 213/240

Transmission

Five-speed manual or five-speed adaptive automatic

Special standard equipment

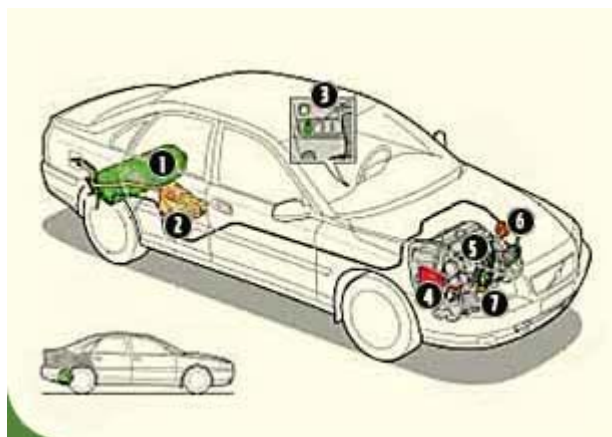
Automatic levelling, 16-inch wheels

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VOLVO S60 LPG/petrol



1. Gas tank
2. Petrol tank
3. Gas/Petrol switch
4. Gas control unit
5. Gas injector
6. Pressure regulator
7. Fuel distributor for gas

Engine type

Transverse 2.4-litre five-cylinder Bi-Fuel liquified petroleum gas (LPG)/petrol engine with twenty valves and variable timing on the inlet side.

Maximum power

LPG: 140 bhp at 5100 rpm

Petrol: 140 bhp at 4500 rpm

Maximum torque

LPG: 214 Nm at 4500 rpm

Petrol: 220 Nm at 3750 rpm

Maximum speed

LPG, man/auto: 210/205 km/h

Petrol, man/auto: 210/205 km/h

Acceleration 0-100 km/h

LPG, man/auto: 10.3/11.2 seconds

Petrol, man/auto: 10.2/11.1 seconds

Range on full tank*

LPG, man/auto: 439/388 km

Petrol, man/auto: 330/302 km

Fuel consumption l/100 km*

LPG, man/auto: 11.4/12.9 (mixed driving)

Petrol, man/auto: 8.8/9.6 (mixed driving)

CO2 emission, g/km*

LPG, man/auto: 185/202

Petrol, man/auto: 211/231

Transmission

Five-speed manual or five-speed adaptive automatic

Special standard equipment

Automatic levelling, 16-inch wheels

*)Above shown values for fuel consumption, CO2 emissions, and range on full tank are based upon official certification values for heaviest possible car with all conceivable options. A large share of the cars produced will, however, end up in a lower inertia weight class with about 1,5 % lower CO2 and fuel consumption values, and about 1,5 % increased range.

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