

TABLE 9-1

Flash Points and Ignition Temperatures of Vehicle Fluids

FLUID	FLASH POINT	IGNITION TEMPERATURE
Gasoline	-43°C-38°C (-45°F-36°F)	280°C-456°C (536°F-853°F) (varies with grade)
Ethanol	13°C (55°F)	363°C (685°F)
Diesel fuel	52°C (125°F)	260°C (500°F)
Ethylene glycol (100%)	111°C (232°F)	398°C (748°F)
Propylene glycol (100%)	99°C (210°F)	371°C (700°F)
Windshield washer fluid (methanol)	11°C-15°C (52°F-55°F)	464°C-484°C (867°F-903°F)
Hydraulic brake fluid DOT 3 (Normal auto service) DOT 5 (Synthetic or silicone)		190°C (375°F) 260°C (500°F)
Lubricating oil (including power steering and automatic transmission fluid)	150°C-230°C (300°F-450°F)	260°C-371°C (500°F-700°F)
Compressed natural gas (CNG)	N/A	632°C-650°C (1169°F-1202°F)
Propane (LPG)	N/A	450°C-493°C (842°F-919°F)

Source: NFPA, *Fire Protection Guide to Hazardous Materials*, 12th ed. (Quincy, MA: NFPA, 2001).

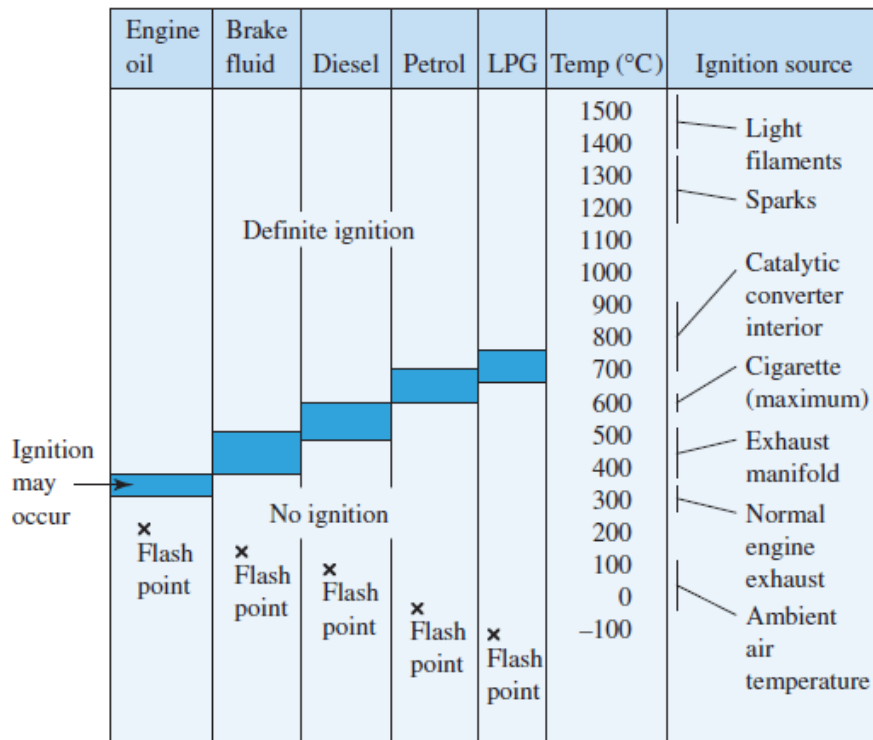


FIGURE 9-1 Representative ignition temperatures of vehicle fluids, temperatures of vehicle fluids, and temperatures of ignition sources. *Courtesy of Fire, October 1991. Reprinted in March, G., "An Investigation and Evaluation of Fire and Explosion Hazards Resulting from Modern Developments in Vehicle Manufacture." Newcastle-upon-Tyne, United Kingdom. Tyne and Wear Fire Brigade, Newcastle, United Kingdom, 1993.*