

Octane,

1-Iodoperfluorooctane

1-Iodoheptadecafluorooctane

Octane, heptadecafluoro-1-iodo-

Heptadecafluoro-1-iodooctane

Perfluoro-1-iodooctane

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

Physical Properties

Property code	Value	Unit	Source
af	0.5329		Cheméo Relay (1.0)
gf	-3214.45	kJ/mol	Joback Method
hf	-3518.39	kJ/mol	Cheméo Relay (1.0)
hfus	13.93	kJ/mol	Joback Method
hvap	51.79	kJ/mol	Cheméo Relay (1.0)
ie	10.38	eV	Cheméo Relay (1.0)
logp	6.388		Crippen Method
mcvol	179.490	ml/mol	McGowan Method
pc	1455.68	kPa	Joback Method
tb	424.95	K	Cheméo Relay (1.0)
tc	563.19	K	Cheméo Relay (1.0)
tf	255.75	K	Cheméo Relay (1.0)
vc	0.771	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.01	J/mol×K	437.33	Joback Method
cpg	462.83	J/mol×K	460.05	Joback Method
cpg	474.56	J/mol×K	482.78	Joback Method

cpg	485.26	J/mol×K	505.50	Joback Method
cpg	494.99	J/mol×K	528.23	Joback Method
cpg	503.80	J/mol×K	550.95	Joback Method
cpg	511.75	J/mol×K	573.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C507631&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/27-532-1/Octane-1-1-1-2-2-3-3-4-4-5-5-6-6-7-7-8-8-heptadecafluoro-8-iodo.pdf>

Generated by Cheméo on 2026-07-21 04:36:21.769777176 +0000 UTC m=+119677.611662559.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.