

OCTACHLOROPROPANE

Other names:	Propane, octachloro-
Inchi:	InChI=1S/C3Cl8/c4-1(5,2(6,7)8)3(9,10)11
InchiKey:	QQAHAAGNPDBPSJP-UHFFFAOYSA-N
Formula:	C3Cl8
SMILES:	CIC(CI)(CI)C(CI)(CI)C(CI)(CI)CI
Mol. weight [g/mol]:	319.66

Physical Properties

Property code	Value	Unit	Source
af	0.2789		Cheméo Relay (1.0)
hf	-179.20	kJ/mol	Cheméo Relay (1.0)
hfus	14.86	kJ/mol	Joback Method
hvap	61.50	kJ/mol	Cheméo Relay (1.0)
ie	10.93	eV	Cheméo Relay (1.0)
log10ws	-4.63		Cheméo Relay (1.0)
logp	4.901		Crippen Method
mcvol	151.050	ml/mol	McGowan Method
pc	3284.05	kPa	Joback Method
rinpol	1580.00		NIST Webbook
tb	525.40	K	Cheméo Relay (1.0)
tc	757.31	K	Cheméo Relay (1.0)
tf	408.32	K	Cheméo Relay (1.0)
vc	0.520	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.49	J/mol×K	557.79	Joback Method
cpg	235.40	J/mol×K	602.83	Joback Method
cpg	238.28	J/mol×K	647.88	Joback Method
cpg	240.30	J/mol×K	692.92	Joback Method
cpg	241.64	J/mol×K	737.96	Joback Method
cpg	242.46	J/mol×K	783.01	Joback Method
cpg	242.94	J/mol×K	828.05	Joback Method

dvisc	0.0031121	Pa×s	370.19	Joback Method
dvisc	0.0017690	Pa×s	401.46	Joback Method
dvisc	0.0010910	Pa×s	432.72	Joback Method
dvisc	0.0007182	Pa×s	463.99	Joback Method
dvisc	0.0004984	Pa×s	495.26	Joback Method
dvisc	0.0003612	Pa×s	526.52	Joback Method
dvisc	0.0002714	Pa×s	557.79	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C594901&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

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

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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