

Cyclopropane, pentachloro-

Other names:	Pentachlorocyclopropane 1,1,2,2,3-Pentachlorocyclopropane Cyclopropane, 1,1,2,2,3-pentachloro-
Inchi:	InChI=1S/C3HCl5/c4-1-2(5,6)3(1,7)8/h1H
InchiKey:	IACJMSLMMMSESC-UHFFFAOYSA-N
Formula:	C3HCl5
SMILES:	C1C(C)(Cl)C1(Cl)Cl
Mol. weight [g/mol]:	214.31
CAS:	6262-51-7

Physical Properties

Property code	Value	Unit	Source
gf	-50.92	kJ/mol	Joback Method
hf	-121.35	kJ/mol	Joback Method
hfus	12.19	kJ/mol	Joback Method
hvap	41.19	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	2.955		Crippen Method
mcvol	103.470	ml/mol	McGowan Method
pc	4233.04	kPa	Joback Method
tb	453.07	K	Joback Method
tc	697.89	K	Joback Method
tf	330.43	K	Joback Method
vc	0.400	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	156.60	J/mol×K	453.07	Joback Method
cpg	162.32	J/mol×K	493.87	Joback Method
cpg	166.83	J/mol×K	534.68	Joback Method
cpg	170.40	J/mol×K	575.48	Joback Method
cpg	173.34	J/mol×K	616.28	Joback Method
cpg	175.91	J/mol×K	657.09	Joback Method

cpg

178.43

J/mol×K

697.89

Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	328.70	K	0.90	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6262517&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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