

1,1,4,4-Tetrachlorocyclohexane

Inchi:

InChI=1S/C6H8Cl4/c7-5(8)1-2-6(9,10)4-3-5/h1-4H2

InchiKey:

SJHDKLOAEPAHKR-UHFFFAOYSA-N

Formula:

C6H8Cl4

SMILES:

C1C(Cl)CCC(Cl)(Cl)CC1

Mol. weight [g/mol]:

221.94

Physical Properties

Property code	Value	Unit	Source
gf	-42.32	kJ/mol	Joback Method
hf	-165.67	kJ/mol	Joback Method
hfus	8.39	kJ/mol	Joback Method
hvap	44.31	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.908		Crippen Method
mcvol	133.500	ml/mol	McGowan Method
pc	3543.08	kPa	Joback Method
rinpol	1227.00		NIST Webbook
rinpol	1227.00		NIST Webbook
rinpol	1238.00		NIST Webbook
rinpol	1233.00		NIST Webbook
rinpol	1231.00		NIST Webbook
rinpol	1231.00		NIST Webbook
tb	501.76	K	Joback Method
tc	756.73	K	Joback Method
tf	328.00	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.55	J/mol×K	501.76	Joback Method
cpg	257.89	J/mol×K	544.25	Joback Method
cpg	268.89	J/mol×K	586.75	Joback Method
cpg	278.84	J/mol×K	629.24	Joback Method

cpg	288.05	J/mol×K	671.74	Joback Method
cpg	296.84	J/mol×K	714.23	Joback Method
cpg	305.52	J/mol×K	756.73	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R591656&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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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