1,3-Dimethyl-2,4,5,6-tetrakis(chloromethyl)benzen

Inchi: InChI=1S/C12H14Cl4/c1-7-9(3-13)8(2)11(5-15)12(6-16)10(7)4-14/h3-6H2,1-2H3
InchiKey: MKOKIPCCVXZHAR-UHFFFAOYSA-N
Formula: C12H14Cl4
SMILES: Cc1c(CCl)c(C)c(CCl)c(CCl)c1CCl
Mol. weight [g/mol]: 300.05

Physical Properties

Property code	Value	Unit	Source
gf	66.70	kJ/mol	Joback Method
hf	-174.79	kJ/mol	Joback Method
hfus	35.72	kJ/mol	Joback Method
hvap	65.43	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.259		Crippen Method
mcvol	205.140	ml/mol	McGowan Method
pc	1954.41	kPa	Joback Method
rinpol	2152.00		NIST Webbook
tb	675.26	K	Joback Method
tc	895.74	K	Joback Method
tf	433.70	K	Joback Method
vc	0.795	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	453.44	J/mol×K	675.26	Joback Method
cpg	465.56	J/mol×K	712.01	Joback Method
cpg	476.97	J/mol×K	748.75	Joback Method
cpg	487.70	J/mol×K	785.50	Joback Method
cpg	497.76	J/mol×K	822.25	Joback Method
cpg	507.19	J/mol×K	859.00	Joback Method
cpg	515.99	J/mol×K	895.74	Joback Method
dvisc	0.0008017	Pa×s	433.70	Joback Method
dvisc	0.0005523	Pa×s	473.96	Joback Method

dvisc	0.0004033	Pa×s	514.22	Joback Method
dvisc	0.0003083	Pa×s	554.48	Joback Method
dvisc	0.0002444	Pa×s	594.74	Joback Method
dvisc	0.0001995	Pa×s	635.00	Joback Method
dvisc	0.0001669	Pa×s	675.26	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=R520293&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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