

1',1',2',2-Tetrachloro ethyl benzene

Inchi:	InChI=1S/C8H6Cl4/c9-5-8(11,12)6-3-1-2-4-7(6)10/h1-4H,5H2
InchiKey:	IBKZXJDBUSOMOE-UHFFFAOYSA-N
Formula:	C8H6Cl4
SMILES:	C1CC(Cl)(Cl)c1cccc1Cl
Mol. weight [g/mol]:	243.94
CAS:	116401-13-9

Physical Properties

Property code	Value	Unit	Source
gf	74.38	kJ/mol	Joback Method
hf	-55.10	kJ/mol	Joback Method
hfus	19.50	kJ/mol	Joback Method
hvap	52.58	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	4.209		Crippen Method
mvol	148.780	ml/mol	McGowan Method
pc	3089.85	kPa	Joback Method
tb	560.59	K	Joback Method
tc	810.28	K	Joback Method
tf	340.96	K	Joback Method
vc	0.560	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.72	J/molxK	560.59	Joback Method
cpg	285.80	J/molxK	602.21	Joback Method
cpg	294.92	J/molxK	643.82	Joback Method
cpg	303.14	J/molxK	685.44	Joback Method
cpg	310.55	J/molxK	727.05	Joback Method
cpg	317.24	J/molxK	768.67	Joback Method
cpg	323.29	J/molxK	810.28	Joback Method
dvisc	0.0023479	Paxs	340.96	Joback Method
dvisc	0.0013403	Paxs	377.56	Joback Method

dvisc	0.0008448	Paxs	414.17	Joback Method
dvisc	0.0005739	Paxs	450.77	Joback Method
dvisc	0.0004132	Paxs	487.38	Joback Method
dvisc	0.0003115	Paxs	523.98	Joback Method
dvisc	0.0002436	Paxs	560.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116401139&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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