[2H8]-1,4-Bis(chloromethyl)benzene

Inchi: InChI=1S/C8H8Cl2/c9-5-7-1-2-8(6-10)4-3-7/h1-4H,5-6H2/i1D,2D,3D,4D,5D2,6D2
InchiKey: ZZHIDJWUJRKHGX-MOBLDEHESA-N
Formula: C8D8Cl2
SMILES: ClCc1ccc(CCl)cc1
Mol. weight [g/mol]: 183.10

Physical Properties

Property code	Value	Unit	Source
gf	95.40	kJ/mol	Joback Method
hf	-14.87	kJ/mol	Joback Method
hfus	18.52	kJ/mol	Joback Method
hvap	45.11	kJ/mol	Joback Method
log10ws	-3.54		Crippen Method
logp	3.164		Crippen Method
mcvol	124.300	ml/mol	McGowan Method
pc	3287.81	kPa	Joback Method
rinpol	1288.00		NIST Webbook
rinpol	1381.00		NIST Webbook
tb	488.96	K	Joback Method
tc	713.24	K	Joback Method
tf	278.70	K	Joback Method
vc	0.473	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.69	J/mol×K	488.96	Joback Method
cpg	237.74	J/mol×K	526.34	Joback Method
cpg	248.08	J/mol×K	563.72	Joback Method
cpg	257.74	J/mol×K	601.10	Joback Method
cpg	266.75	J/mol×K	638.48	Joback Method
cpg	275.15	J/mol×K	675.86	Joback Method
cpg	282.97	J/mol×K	713.24	Joback Method
dvisc	0.0023233	Pa×s	278.70	Joback Method

dvisc	0.0013318	Pa×s	313.74	Joback Method
dvisc	0.0008537	Pa×s	348.79	Joback Method
dvisc	0.0005936	Pa×s	383.83	Joback Method
dvisc	0.0004386	Pa×s	418.87	Joback Method
dvisc	0.0003395	Pa×s	453.92	Joback Method
dvisc	0.0002727	Pa×s	488.96	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R389052&Units=SI

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