

Naphthalene, 1,5-bis(chloromethyl)-

Other names:	1,5-bis(chloromethyl)naphthalene
Inchi:	InChI=1S/C12H10Cl2/c13-7-9-3-1-5-11-10(8-14)4-2-6-12(9)11/h1-6H,7-8H2
InchiKey:	HJTAZXHBEBIQX-UHFFFAOYSA-N
Formula:	C12H10Cl2
SMILES:	ClC1cccc2c(CCl)cccc12
Mol. weight [g/mol]:	225.11
CAS:	1733-76-2

Physical Properties

Property code	Value	Unit	Source
gf	226.10	kJ/mol	Joback Method
hf	82.17	kJ/mol	Joback Method
hfus	25.51	kJ/mol	Joback Method
hvap	56.32	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.317		Crippen Method
mcvol	161.200	ml/mol	McGowan Method
pc	2775.92	kPa	Joback Method
tb	604.44	K	Joback Method
tc	844.04	K	Joback Method
tf	369.00	K	Joback Method
vc	0.620	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.24	J/molxK	604.44	Joback Method
cpg	359.96	J/molxK	644.37	Joback Method
cpg	371.71	J/molxK	684.31	Joback Method
cpg	382.57	J/molxK	724.24	Joback Method
cpg	392.62	J/molxK	764.17	Joback Method
cpg	401.92	J/molxK	804.11	Joback Method
cpg	410.58	J/molxK	844.04	Joback Method
dvisc	0.0014487	Paxs	369.00	Joback Method

dvisc	0.0010018	Paxs	408.24	Joback Method
dvisc	0.0007390	Paxs	447.48	Joback Method
dvisc	0.0005726	Paxs	486.72	Joback Method
dvisc	0.0004608	Paxs	525.96	Joback Method
dvisc	0.0003822	Paxs	565.20	Joback Method
dvisc	0.0003248	Paxs	604.44	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1733762&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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