

Naphthalene, 1-(chloromethyl)-2-methyl-

Other names:	1-Chloromethyl-2-methylnaphthalene
Inchi:	InChI=1S/C12H11Cl/c1-9-6-7-10-4-2-3-5-11(10)12(9)8-13/h2-7H,8H2,1H3
InchiKey:	STBYRSZXHDPASK-UHFFFAOYSA-N
Formula:	C12H11Cl
SMILES:	Cc1ccc2ccccc2c1CCl
Mol. weight [g/mol]:	190.67
CAS:	6626-23-9

Physical Properties

Property code	Value	Unit	Source
gf	238.03	kJ/mol	Joback Method
hf	97.91	kJ/mol	Joback Method
hfus	21.32	kJ/mol	Joback Method
hvap	51.93	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	3.887		Crippen Method
mcvol	148.960	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
tb	567.01	K	Joback Method
tc	802.92	K	Joback Method
tf	339.08	K	Joback Method
vc	0.571	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.55	J/molxK	567.01	Joback Method
cpg	336.36	J/molxK	606.33	Joback Method
cpg	349.17	J/molxK	645.65	Joback Method
cpg	361.04	J/molxK	684.97	Joback Method
cpg	372.06	J/molxK	724.28	Joback Method
cpg	382.30	J/molxK	763.60	Joback Method
cpg	391.82	J/molxK	802.92	Joback Method
dvisc	0.0013939	Paxs	339.08	Joback Method

dvisc	0.0009629	Paxs	377.07	Joback Method
dvisc	0.0007117	Paxs	415.06	Joback Method
dvisc	0.0005535	Paxs	453.05	Joback Method
dvisc	0.0004475	Paxs	491.03	Joback Method
dvisc	0.0003730	Paxs	529.02	Joback Method
dvisc	0.0003186	Paxs	567.01	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6626239&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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