Acenaphthene, 1-chloro

Inchi: InChI=1S/C12H9Cl/c13-11-7-9-5-1-3-8-4-2-6-10(11)12(8)9/h1-6,11H,7H2
InchiKey: ANIXIIYQBGBGRI-UHFFFAOYSA-N
Formula: C12H9Cl
SMILES: ClC1Cc2cccc3cccc1c23
Mol. weight [g/mol]: 188.65

Physical Properties

Property code	Value	Unit	Source
gf	310.88	kJ/mol	Joback Method
hf	176.87	kJ/mol	Joback Method
hfus	21.55	kJ/mol	Joback Method
hvap	51.67	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	3.676		Crippen Method
mcvol	138.100	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
rinpol	1706.00		NIST Webbook
tb	569.48	K	Joback Method
tc	814.84	K	Joback Method
tf	360.54	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.12	J/mol×K	569.48	Joback Method
cpg	320.61	J/mol×K	610.37	Joback Method
cpg	332.93	J/mol×K	651.27	Joback Method
cpg	344.20	J/mol×K	692.16	Joback Method
cpg	354.56	J/mol×K	733.06	Joback Method
cpg	364.15	J/mol×K	773.95	Joback Method
cpg	373.10	J/mol×K	814.84	Joback Method
dvisc	0.0015704	Pa×s	360.54	Joback Method
dvisc	0.0013845	Pa×s	395.36	Joback Method

dvisc	0.0012457	Pa×s	430.19	Joback Method
dvisc	0.0011387	Pa×s	465.01	Joback Method
dvisc	0.0010541	Pa×s	499.83	Joback Method
dvisc	0.0009855	Pa×s	534.66	Joback Method
dvisc	0.0009291	Pa×s	569.48	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=R131581&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