

Fluorene, 9-chloro-

Other names:	9-Chlorofluorene 9H-Fluorene, 9-chloro-
Inchi:	InChI=1S/C13H9Cl/c14-13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)13/h1-8,13H
InchiKey:	CVCQMAKDIKSUHX-UHFFFAOYSA-N
Formula:	C13H9Cl
SMILES:	<chem>C1C1c2ccccc2-c2ccccc21</chem>
Mol. weight [g/mol]:	200.66
CAS:	6630-65-5

Physical Properties

Property code	Value	Unit	Source
gf	337.16	kJ/mol	Joback Method
hf	207.85	kJ/mol	Joback Method
hfus	23.26	kJ/mol	Joback Method
hvap	54.36	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	3.995		Crippen Method
mvol	147.890	ml/mol	McGowan Method
pc	3117.52	kPa	Joback Method
tb	595.79	K	Joback Method
tc	847.21	K	Joback Method
tf	369.05	K	Joback Method
vc	0.570	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.96	J/molxK	595.79	Joback Method
cpg	347.80	J/molxK	637.69	Joback Method
cpg	360.42	J/molxK	679.60	Joback Method
cpg	371.96	J/molxK	721.50	Joback Method
cpg	382.55	J/molxK	763.40	Joback Method
cpg	392.35	J/molxK	805.31	Joback Method
cpg	401.48	J/molxK	847.21	Joback Method

dvisc	0.0015650	Paxs	369.05	Joback Method
dvisc	0.0013031	Paxs	406.84	Joback Method
dvisc	0.0011194	Paxs	444.63	Joback Method
dvisc	0.0009847	Paxs	482.42	Joback Method
dvisc	0.0008825	Paxs	520.21	Joback Method
dvisc	0.0008028	Paxs	558.00	Joback Method
dvisc	0.0007390	Paxs	595.79	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=C6630655&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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