

2-Chlorofluorene

Other names:	Fluorene, 2-chloro- 9H-Fluorene, 2-chloro-
Inchi:	InChI=1S/C13H9Cl/c14-11-5-6-13-10(8-11)7-9-3-1-2-4-12(9)13/h1-6,8H,7H2
InchiKey:	FCPAQNZCCWBDSY-UHFFFAOYSA-N
Formula:	C13H9Cl
SMILES:	Clc1ccc2c(c1)Cc1cccc1-2
Mol. weight [g/mol]:	200.66
CAS:	2523-44-6

Physical Properties

Property code	Value	Unit	Source
gf	335.24	kJ/mol	Joback Method
hf	216.72	kJ/mol	Joback Method
hfus	21.80	kJ/mol	Joback Method
hvap	55.33	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	3.911		Crippen Method
mvol	147.890	ml/mol	McGowan Method
pc	3181.14	kPa	Joback Method
tb	605.44	K	Joback Method
tc	857.75	K	Joback Method
tf	385.81	K	Joback Method
vc	0.571	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.64	J/molxK	605.44	Joback Method
cpg	385.65	J/molxK	815.69	Joback Method
cpg	376.34	J/molxK	773.64	Joback Method
cpg	366.33	J/molxK	731.59	Joback Method
cpg	355.47	J/molxK	689.54	Joback Method
cpg	343.62	J/molxK	647.49	Joback Method
cpg	394.38	J/molxK	857.75	Joback Method

dvisc	0.0006489	Paxs	605.44	Joback Method
dvisc	0.0007159	Paxs	568.84	Joback Method
dvisc	0.0008005	Paxs	532.23	Joback Method
dvisc	0.0009100	Paxs	495.63	Joback Method
dvisc	0.0010559	Paxs	459.02	Joback Method
dvisc	0.0012572	Paxs	422.42	Joback Method
dvisc	0.0015471	Paxs	385.81	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	418.00 ± 5.00	K	0.30	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2523446&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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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