

Fluorene, 1,2,3,4,4a,9a-hexahydro-, cis-

Inchi:	InChI=1S/C13H16/c1-3-7-12-10(5-1)9-11-6-2-4-8-13(11)12/h1,3,5,7,11,13H,2,4,6,8-9H2
InchiKey:	OSJFWOVKJZKBOA-WCQYABFASA-N
Formula:	C13H16
SMILES:	c1ccc2c(c1)CC1CCCCC21
Mol. weight [g/mol]:	172.27
CAS:	1559-97-3

Physical Properties

Property code	Value	Unit	Source
gf	270.76	kJ/mol	Joback Method
hf	52.85	kJ/mol	Joback Method
hfus	17.25	kJ/mol	Joback Method
hvap	47.47	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	3.516		Crippen Method
mcvol	148.550	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	546.25	K	Joback Method
tc	784.16	K	Joback Method
tf	307.57	K	Joback Method
vc	0.561	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.76	J/molxK	546.25	Joback Method
cpg	387.15	J/molxK	585.90	Joback Method
cpg	406.00	J/molxK	625.55	Joback Method
cpg	423.41	J/molxK	665.20	Joback Method
cpg	439.51	J/molxK	704.86	Joback Method
cpg	454.42	J/molxK	744.51	Joback Method
cpg	468.25	J/molxK	784.16	Joback Method
dvisc	0.0019221	Paxs	307.57	Joback Method
dvisc	0.0014820	Paxs	347.35	Joback Method

dvisc	0.0012054	Paxs	387.13	Joback Method
dvisc	0.0010189	Paxs	426.91	Joback Method
dvisc	0.0008863	Paxs	466.69	Joback Method
dvisc	0.0007880	Paxs	506.47	Joback Method
dvisc	0.0007127	Paxs	546.25	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1559973&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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