

3-Hydroxy-9-methylfluorene

Inchi:	InChI=1S/C14H12O/c1-9-11-4-2-3-5-13(11)14-8-10(15)6-7-12(9)14/h2-9,15H,1H3
InchiKey:	UXDCAJOFONTMQJ-UHFFFAOYSA-N
Formula:	C14H12O
SMILES:	CC1c2ccccc2-c2cc(O)ccc21
Mol. weight [g/mol]:	196.24

Physical Properties

Property code	Value	Unit	Source
gf	202.89	kJ/mol	Joback Method
hf	25.64	kJ/mol	Joback Method
hfus	27.44	kJ/mol	Joback Method
hvap	65.22	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	3.524		Crippen Method
mcvol	155.610	ml/mol	McGowan Method
pc	3456.14	kPa	Joback Method
rinpola	1844.00		NIST Webbook
tb	661.86	K	Joback Method
tc	913.14	K	Joback Method
tf	462.12	K	Joback Method
vc	0.542	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.44	J/molxK	661.86	Joback Method
cpg	464.84	J/molxK	871.26	Joback Method
cpg	454.19	J/molxK	829.38	Joback Method
cpg	443.13	J/molxK	787.50	Joback Method
cpg	431.44	J/molxK	745.62	Joback Method
cpg	418.95	J/molxK	703.74	Joback Method
cpg	475.28	J/molxK	913.14	Joback Method
dvisc	0.0000933	Paxs	661.86	Joback Method
dvisc	0.0001202	Paxs	628.57	Joback Method

dvisc	0.0001593	Paxs	595.28	Joback Method
dvisc	0.0002182	Paxs	561.99	Joback Method
dvisc	0.0003110	Paxs	528.70	Joback Method
dvisc	0.0004649	Paxs	495.41	Joback Method
dvisc	0.0007365	Paxs	462.12	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=R569129&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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