9H-Fluoren-3-ol, 9,9-dimethyl-

Other names: 3-Hydroxy-9,9-dimethylfluorene
Inchi: InChI=1S/C15H14O/c1-15(2)13-6-4-3-5-11(13)12-9-10(16)7-8-14(12)15/h3-9,16H,1-2H3
InchiKey: ARSKXYCQALXTHQ-UHFFFAOYSA-N
Formula: C15H14O
SMILES: CC1(C)c2ccccc2-c2cc(O)ccc21
Mol. weight [g/mol]: 210.27

Physical Properties

Property code	Value	Unit	Source
gf	205.82	kJ/mol	Joback Method
hf	20.24	kJ/mol	Joback Method
hfus	23.73	kJ/mol	Joback Method
hvap	66.29	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	3.699		Crippen Method
mcvol	169.700	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
rinpol	1953.00		NIST Webbook
rinpol	1953.00		NIST Webbook
tb	684.98	K	Joback Method
tc	940.29	K	Joback Method
tf	497.29	K	Joback Method
vc	0.597	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	451.35	J/mol×K	684.98	Joback Method
cpg	465.39	J/mol×K	727.53	Joback Method
cpg	478.83	J/mol×K	770.08	Joback Method
cpg	492.02	J/mol×K	812.63	Joback Method
cpg	505.30	J/mol×K	855.19	Joback Method
cpg	519.04	J/mol×K	897.74	Joback Method
cpg	533.57	J/mol×K	940.29	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U141551&Units=SI

Legend

cpg:	Ideal gas heat capacity
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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