9H-Fluoren-9-ol, acetate

Other names:	Fluoren-9-ol, acetate
	Fluorenyl acetate
	9-Acetoxyfluorene
	9-Fluorenyl acetate
Inchi:	InChI=1S/C15H12O2/c1-10(16)17-15-13-8-4-2-6-11(13)12-7-3-5-9-14(12)15/h2-9,15H,1H
InchiKey:	UWSLPNWPRYFAMX-UHFFFAOYSA-N
Formula:	C15H12O2
SMILES:	CC(=O)OC1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	224.25
CAS:	25017-68-9

Physical Properties

Property code	Value	Unit	Source
gf	132.01	kJ/mol	Joback Method
hf	-62.49	kJ/mol	Joback Method
hfus	27.03	kJ/mol	Joback Method
hvap	63.58	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.320		Crippen Method
mcvol	171.270	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
tb	680.41	K	Joback Method
tc	920.48	K	Joback Method
tf	433.83	K	Joback Method
vc	0.656	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.08	J/mol×K	680.41	Joback Method
cpg	459.21	J/mol×K	720.42	Joback Method
cpg	472.27	J/mol×K	760.43	Joback Method
cpg	484.37	J/mol×K	800.45	Joback Method
cpg	495.59	J/mol×K	840.46	Joback Method

cpg	506.06	J/mol×K	880.47	Joback Method
cpg	515.85	J/mol×K	920.48	Joback Method
dvisc	0.0016682	Pa×s	433.83	Joback Method
dvisc	0.0013361	Pa×s	474.93	Joback Method
dvisc	0.0011087	Pa×s	516.02	Joback Method
dvisc	0.0009456	Pa×s	557.12	Joback Method
dvisc	0.0008244	Pa×s	598.22	Joback Method
dvisc	0.0007314	Pa×s	639.31	Joback Method
dvisc	0.0006584	Pa×s	680.41	Joback Method

Sources

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=C25017689&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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