

2-Acetylfluorene

Other names:	Ethanone, 1-(9H-fluoren-2-yl)- Ketone, fluoren-2-yl methyl 2-Acetofluorene 2-Fluorenyl methyl ketone fluoren-2-yl methyl ketone
Inchi:	InChI=1S/C15H12O/c1-10(16)11-6-7-15-13(8-11)9-12-4-2-3-5-14(12)15/h2-8H,9H2,1H3
InchiKey:	IBASEVZORZFIIH-UHFFFAOYSA-N
Formula:	C15H12O
SMILES:	CC(=O)c1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]:	208.26
CAS:	781-73-7

Physical Properties

Property code	Value	Unit	Source
gf	235.09	kJ/mol	Joback Method
hf	78.60	kJ/mol	Joback Method
hfus	24.38	kJ/mol	Joback Method
hvap	62.15	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	3.460		Crippen Method
mcvol	165.400	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	667.64	K	Joback Method
tc	912.28	K	Joback Method
tf	428.36	K	Joback Method
vc	0.639	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	416.36	J/molxK	667.64	Joback Method
cpg	430.14	J/molxK	708.41	Joback Method
cpg	442.85	J/molxK	749.19	Joback Method
cpg	454.64	J/molxK	789.96	Joback Method

cpg	465.63	J/molxK	830.74	Joback Method
cpg	475.94	J/molxK	871.51	Joback Method
cpg	485.73	J/molxK	912.28	Joback Method
dvisc	0.0018131	Paxs	428.36	Joback Method
dvisc	0.0014319	Paxs	468.24	Joback Method
dvisc	0.0011735	Paxs	508.12	Joback Method
dvisc	0.0009900	Paxs	548.00	Joback Method
dvisc	0.0008547	Paxs	587.88	Joback Method
dvisc	0.0007518	Paxs	627.76	Joback Method
dvisc	0.0006715	Paxs	667.64	Joback Method

Sources

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=C781737&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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