

Acetamide, N-acetyl-N-9H-fluoren-2-yl-

Other names:	Diacetamide, N-fluoren-2-yl- N-2-Fluorenyldiacetamide N,N-Diacetyl-2-aminofluorene 2-Diacetamidofluorene 2-Diacetylamino fluorene Acetamide, N-fluoren-2-yl- N-Acetyl-N-2-fluorenylacetamide N-Fluoren-2-yldiacetamide 2-Fluorenyldiacetamide N-Diacetyl-2-aminofluorene N,N-Diacetyl-2-fluorenamine F-diAa NSC 72111 N-acetyl-N-9H-fluoren-2-ylacetamide
Inchi:	InChI=1S/C17H15NO2/c1-11(19)18(12(2)20)15-7-8-17-14(10-15)9-13-5-3-4-6-16(13)17/
InchiKey:	CUEUMJJOLJYAPL-UHFFFAOYSA-N
Formula:	C17H15NO2
SMILES:	CC(=O)N(C(C)=O)c1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]:	265.31
CAS:	642-65-9

Physical Properties

Property code	Value	Unit	Source
gf	233.79	kJ/mol	Joback Method
hf	-7.73	kJ/mol	Joback Method
hfus	34.18	kJ/mol	Joback Method
hvap	75.39	kJ/mol	Joback Method
log10ws	-4.72		Crippen Method
logp	3.157		Crippen Method
mcvol	205.130	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
tb	779.71	K	Joback Method
tc	1016.17	K	Joback Method
tf	533.30	K	Joback Method
vc	0.775	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	571.03	J/molxK	779.71	Joback Method
cpg	584.29	J/molxK	819.12	Joback Method
cpg	596.65	J/molxK	858.53	Joback Method
cpg	608.26	J/molxK	897.94	Joback Method
cpg	619.25	J/molxK	937.35	Joback Method
cpg	629.76	J/molxK	976.76	Joback Method
cpg	639.93	J/molxK	1016.17	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C642659&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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