

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

Other names:	Acetamide, N-fluoren-2-yl-2,2,2-trifluoro- N-(2-Fluorenyl)-2,2,2-trifluoroacetamide 2-(2,2,2-Trifluoroacetamido)fluorene 2-((Trifluoroacetyl)amino)fluorene 2,2,2-Trifluoro-N-(fluoren-2-yl)acetamide N-Fluoren-2-yl-2,2,2-trifluoroacetamide 2-Aminofluorene, TFA
Inchi:	InChI=1S/C15H10F3NO/c16-15(17,18)14(20)19-11-5-6-13-10(8-11)7-9-3-1-2-4-12(9)13/
InchiKey:	XPHPBNGAXWJHHP-UHFFFAOYSA-N
Formula:	C15H10F3NO
SMILES:	O=C(Nc1ccc2c(c1)Cc1cccc1-2)C(F)(F)F
Mol. weight [g/mol]:	277.24
CAS:	363-17-7

Physical Properties

Property code	Value	Unit	Source
gf	-257.11	kJ/mol	Joback Method
hf	-465.01	kJ/mol	Joback Method
hfus	31.31	kJ/mol	Joback Method
hvap	64.84	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	3.759		Crippen Method
mvol	180.690	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	350.29		NIST Webbook
rinpol	350.24		NIST Webbook
tb	712.39	K	Joback Method
tc	936.05	K	Joback Method
tf	485.21	K	Joback Method
vc	0.718	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	492.16	J/mol×K	712.39	Joback Method
cpg	503.82	J/mol×K	749.67	Joback Method
cpg	514.58	J/mol×K	786.94	Joback Method
cpg	524.56	J/mol×K	824.22	Joback Method
cpg	533.89	J/mol×K	861.49	Joback Method
cpg	542.72	J/mol×K	898.77	Joback Method
cpg	551.16	J/mol×K	936.05	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=C363177&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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