

2'-Trifluoromethylbenzanilide

Inchi:	InChI=1S/C14H10F3NO/c15-14(16,17)11-8-4-5-9-12(11)18-13(19)10-6-2-1-3-7-10/h1-9H
InchiKey:	MDGRCZMZIVXYDB-UHFFFAOYSA-N
Formula:	C14H10F3NO
SMILES:	O=C(Nc1ccccc1C(F)(F)F)c1ccccc1
Mol. weight [g/mol]:	265.23
CAS:	1939-24-8

Physical Properties

Property code	Value	Unit	Source
gf	-338.93	kJ/mol	Joback Method
hf	-526.89	kJ/mol	Joback Method
hfus	28.23	kJ/mol	Joback Method
hvap	61.41	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	3.958		Crippen Method
mcvol	177.460	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
tb	676.68	K	Joback Method
tc	902.13	K	Joback Method
tf	419.68	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.39	J/molxK	676.68	Joback Method
cpg	480.59	J/molxK	714.26	Joback Method
cpg	492.66	J/molxK	751.83	Joback Method
cpg	503.68	J/molxK	789.41	Joback Method
cpg	513.74	J/molxK	826.98	Joback Method
cpg	522.92	J/molxK	864.56	Joback Method
cpg	531.32	J/molxK	902.13	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=C1939248&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
mccvol:	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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