

Orcinol, bis(trifluoroacetate)

Other names:	Resorcinol, 5-methyl, bis-TFA
Inchi:	InChI=1S/C11H6F6O4/c1-5-2-6(20-8(18)10(12,13)14)4-7(3-5)21-9(19)11(15,16)17/h2-4H
InchiKey:	OFJFSFHOOCQBTA-UHFFFAOYSA-N
Formula:	C11H6F6O4
SMILES:	<chem>Cc1cc(OC(=O)C(F)(F)F)cc(OC(=O)C(F)(F)F)c1</chem>
Mol. weight [g/mol]:	316.15

Physical Properties

Property code	Value	Unit	Source
gf	-1496.13	kJ/mol	Joback Method
hf	-1740.54	kJ/mol	Joback Method
hfus	26.74	kJ/mol	Joback Method
hvap	54.50	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	2.930		Crippen Method
mcvol	167.590	ml/mol	McGowan Method
pc	2239.76	kPa	Joback Method
rinpol	1094.00		NIST Webbook
rinpol	1095.00		NIST Webbook
tb	629.46	K	Joback Method
tc	815.20	K	Joback Method
tf	417.89	K	Joback Method
vc	0.677	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.58	J/molxK	629.46	Joback Method
cpg	451.74	J/molxK	660.42	Joback Method
cpg	461.19	J/molxK	691.37	Joback Method
cpg	469.97	J/molxK	722.33	Joback Method
cpg	478.09	J/molxK	753.28	Joback Method
cpg	485.59	J/molxK	784.24	Joback Method
cpg	492.49	J/molxK	815.20	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U375931&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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