

2,3-Difluorobenzoic acid

Inchi:	InChI=1S/C7H4F2O2/c8-5-3-1-2-4(6(5)9)7(10)11/h1-3H,(H,10,11)
InchiKey:	JLZVIWSFUPLSOR-UHFFFAOYSA-N
Formula:	C6H4F2O2
SMILES:	O=C(O)c1cccc(F)c1F
Mol. weight [g/mol]:	146.09
CAS:	4519-39-5

Physical Properties

Property code	Value	Unit	Source
gf	-554.15	kJ/mol	Joback Method
hf	-631.25	kJ/mol	Joback Method
hfus	19.00	kJ/mol	Joback Method
hvap	56.57	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	1.663		Crippen Method
mcvol	96.710	ml/mol	McGowan Method
pc	4305.56	kPa	Joback Method
tb	540.79	K	Joback Method
tc	732.76	K	Joback Method
tf	332.04	K	Joback Method
vc	0.381	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.83	J/molxK	540.79	Joback Method
cpg	215.99	J/molxK	572.79	Joback Method
cpg	222.74	J/molxK	604.78	Joback Method
cpg	229.10	J/molxK	636.78	Joback Method
cpg	235.09	J/molxK	668.77	Joback Method
cpg	240.70	J/molxK	700.77	Joback Method
cpg	245.97	J/molxK	732.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C4519395&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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