

2,6-Difluorobenzoic acid, ethyl ester

Inchi:	InChI=1S/C9H8F2O2/c1-2-13-9(12)8-6(10)4-3-5-7(8)11/h3-5H,2H2,1H3
InchiKey:	FBQKPNPHWYPJFU-UHFFFAOYSA-N
Formula:	C9H8F2O2
SMILES:	CCOC(=O)c1c(F)cccc1F
Mol. weight [g/mol]:	186.16
CAS:	19064-14-3

Physical Properties

Property code	Value	Unit	Source
gf	-505.49	kJ/mol	Joback Method
hf	-652.52	kJ/mol	Joback Method
hfus	21.28	kJ/mol	Joback Method
hvap	46.75	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.142		Crippen Method
mcvol	124.890	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
rinpol	1159.80		NIST Webbook
rinpol	1159.80		NIST Webbook
tb	516.79	K	Joback Method
tc	714.01	K	Joback Method
tf	315.99	K	Joback Method
vc	0.491	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.63	J/molxK	516.79	Joback Method
cpg	283.34	J/molxK	549.66	Joback Method
cpg	293.54	J/molxK	582.53	Joback Method
cpg	303.24	J/molxK	615.40	Joback Method
cpg	312.44	J/molxK	648.27	Joback Method
cpg	321.15	J/molxK	681.14	Joback Method
cpg	329.36	J/molxK	714.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19064143&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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