

Formic acid, (2-fluorophenyl)methyl ester

Inchi:	InChI=1S/C8H7FO2/c9-8-4-2-1-3-7(8)5-11-6-10/h1-4,6H,5H2
InchiKey:	KGWMFXHITJZNCT-UHFFFAOYSA-N
Formula:	C8H7FO2
SMILES:	O=COCc1ccccc1F
Mol. weight [g/mol]:	154.14

Physical Properties

Property code	Value	Unit	Source
gf	-280.07	kJ/mol	Joback Method
hf	-397.30	kJ/mol	Joback Method
hfus	16.68	kJ/mol	Joback Method
hvap	44.65	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.499		Crippen Method
mcvol	109.030	ml/mol	McGowan Method
pc	3637.73	kPa	Joback Method
rinpol	1095.00		NIST Webbook
rinpol	1095.00		NIST Webbook
tb	484.45	K	Joback Method
tc	688.49	K	Joback Method
tf	283.68	K	Joback Method
vc	0.428	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.21	J/mol×K	484.45	Joback Method
cpg	234.38	J/mol×K	518.46	Joback Method
cpg	244.03	J/mol×K	552.46	Joback Method
cpg	253.17	J/mol×K	586.47	Joback Method
cpg	261.81	J/mol×K	620.48	Joback Method
cpg	269.97	J/mol×K	654.48	Joback Method
cpg	277.64	J/mol×K	688.49	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=U368736&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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