

Carbonic acid, propyl 2-nitro-5-fluorophenyl ester

Inchi:	InChI=1S/C10H10FNO5/c1-2-5-16-10(13)17-9-6-7(11)3-4-8(9)12(14)15/h3-4,6H,2,5H2,1
InchiKey:	SJPJWMQEQDHZIG-UHFFFAOYSA-N
Formula:	C10H10FNO5
SMILES:	CCCOC(=O)Oc1cc(F)ccc1[N+](=O)[O-]
Mol. weight [g/mol]:	243.19

Physical Properties

Property code	Value	Unit	Source
gf	-371.71	kJ/mol	Joback Method
hf	-620.03	kJ/mol	Joback Method
hfus	33.33	kJ/mol	Joback Method
hvap	68.79	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	2.659		Crippen Method
mvol	160.500	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	1613.00		NIST Webbook
tb	714.66	K	Joback Method
tc	939.38	K	Joback Method
tf	492.51	K	Joback Method
vc	0.629	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.58	J/mol×K	714.66	Joback Method
cpg	436.77	J/mol×K	752.11	Joback Method
cpg	447.14	J/mol×K	789.57	Joback Method
cpg	456.68	J/mol×K	827.02	Joback Method
cpg	465.40	J/mol×K	864.47	Joback Method
cpg	473.28	J/mol×K	901.93	Joback Method
cpg	480.32	J/mol×K	939.38	Joback Method

Sources

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=U357820&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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