

Isophthalic acid, ethyl 2-nitro-5-fluorophenyl ester

Inchi:	InChI=1S/C16H12FNO6/c1-2-23-15(19)10-4-3-5-11(8-10)16(20)24-14-9-12(17)6-7-13(14)
InchiKey:	BSNVQFSBVYUNGP-UHFFFAOYSA-N
Formula:	C16H12FNO6
SMILES:	CCOC(=O)c1cccc(C(=O)Oc2cc(F)ccc2[N+](=O)[O-])c1
Mol. weight [g/mol]:	333.27

Physical Properties

Property code	Value	Unit	Source
gf	-347.33	kJ/mol	Joback Method
hf	-631.39	kJ/mol	Joback Method
hfus	44.13	kJ/mol	Joback Method
hvap	91.83	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	3.130		Crippen Method
mvol	222.850	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
rinpol	2540.00		NIST Webbook
rinpol	2540.00		NIST Webbook
tb	937.47	K	Joback Method
tc	1183.07	K	Joback Method
tf	649.00	K	Joback Method
vc	0.864	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	653.60	J/mol×K	937.47	Joback Method
cpg	662.68	J/mol×K	978.40	Joback Method
cpg	670.47	J/mol×K	1019.34	Joback Method
cpg	676.98	J/mol×K	1060.27	Joback Method
cpg	682.24	J/mol×K	1101.20	Joback Method
cpg	686.27	J/mol×K	1142.13	Joback Method
cpg	689.09	J/mol×K	1183.07	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U344415&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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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