

Isophthalic acid, butyl 2-fluorophenyl ester

Inchi: InChI=1S/C18H17FO4/c1-2-3-11-22-17(20)13-7-6-8-14(12-13)18(21)23-16-10-5-4-9-15(
InchiKey: VYJVHUPSFI AFHO-UHFFFAOYSA-N
Formula: C18H17FO4
SMILES: CCCOC(=O)c1cccc(C(=O)Oc2ccccc2F)c1
Mol. weight [g/mol]: 316.32

Physical Properties

Property code	Value	Unit	Source
gf	-356.41	kJ/mol	Joback Method
hf	-650.44	kJ/mol	Joback Method
hfus	38.33	kJ/mol	Joback Method
hvap	79.03	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	4.002		Crippen Method
mvol	233.610	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinpol	2429.00		NIST Webbook
rinpol	2429.00		NIST Webbook
tb	826.41	K	Joback Method
tc	1048.06	K	Joback Method
tf	515.41	K	Joback Method
vc	0.893	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	674.47	J/mol×K	826.41	Joback Method
cpg	687.76	J/mol×K	863.35	Joback Method
cpg	699.87	J/mol×K	900.29	Joback Method
cpg	710.85	J/mol×K	937.23	Joback Method
cpg	720.70	J/mol×K	974.18	Joback Method
cpg	729.47	J/mol×K	1011.12	Joback Method
cpg	737.16	J/mol×K	1048.06	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U344652&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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