

# Isophthalic acid, 2-bromo-4-fluorophenyl isobutyl ester

<b>Inchi:</b>	InChI=1S/C18H16BrFO4/c1-11(2)10-23-17(21)12-4-3-5-13(8-12)18(22)24-16-7-6-14(20)
<b>InchiKey:</b>	VDQQAFYESLIENV-UHFFFAOYSA-N
<b>Formula:</b>	C18H16BrFO4
<b>SMILES:</b>	CC(C)COC(=O)c1cccc(C(=O)Oc2ccc(F)cc2Br)c1
<b>Mol. weight [g/mol]:</b>	395.22

## Physical Properties

Property code	Value	Unit	Source
gf	-354.16	kJ/mol	Joback Method
hf	-640.86	kJ/mol	Joback Method
hfus	39.71	kJ/mol	Joback Method
hvap	85.74	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	4.620		Crippen Method
mcvol	251.110	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
rinpol	2615.00		NIST Webbook
rinpol	2615.00		NIST Webbook
tb	897.11	K	Joback Method
tc	1132.09	K	Joback Method
tf	572.73	K	Joback Method
vc	0.950	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	706.08	J/molxK	897.11	Joback Method
cpg	717.50	J/molxK	936.27	Joback Method
cpg	727.71	J/molxK	975.44	Joback Method
cpg	736.74	J/molxK	1014.60	Joback Method
cpg	744.64	J/molxK	1053.76	Joback Method
cpg	751.43	J/molxK	1092.92	Joback Method
cpg	757.14	J/molxK	1132.09	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344395&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344395&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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