

# Dimethylmalonic acid, 2-bromo-4-fluorophenyl pentyl ester

<b>Inchi:</b>	InChI=1S/C16H20BrFO4/c1-4-5-6-9-21-14(19)16(2,3)15(20)22-13-8-7-11(18)10-12(13)1
<b>InchiKey:</b>	PCVXHMAKAJWUOT-UHFFFAOYSA-N
<b>Formula:</b>	C16H20BrFO4
<b>SMILES:</b>	CCCCCOC(=O)C(C)(C)C(=O)Oc1ccc(F)cc1Br
<b>Mol. weight [g/mol]:</b>	375.23

## Physical Properties

Property code	Value	Unit	Source
gf	-468.50	kJ/mol	Joback Method
hf	-828.11	kJ/mol	Joback Method
hfus	36.98	kJ/mol	Joback Method
hvap	77.44	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.253		Crippen Method
mvol	246.690	ml/mol	McGowan Method
pc	1861.11	kPa	Joback Method
rinpol	2009.00		NIST Webbook
rinpol	2009.00		NIST Webbook
tb	816.90	K	Joback Method
tc	1030.99	K	Joback Method
tf	528.67	K	Joback Method
vc	0.941	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	695.59	J/mol×K	816.90	Joback Method
cpg	708.71	J/mol×K	852.58	Joback Method
cpg	720.83	J/mol×K	888.26	Joback Method
cpg	732.01	J/mol×K	923.94	Joback Method
cpg	742.27	J/mol×K	959.63	Joback Method
cpg	751.65	J/mol×K	995.31	Joback Method
cpg	760.20	J/mol×K	1030.99	Joback Method

# Sources

<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=U361822&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361822&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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