

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

<b>Inchi:</b>	InChI=1S/C13H14BrFO4/c1-4-18-11(16)13(2,3)12(17)19-10-6-5-8(15)7-9(10)14/h5-7H,4
<b>InchiKey:</b>	BTIHOIGJBJUHMU-UHFFFAOYSA-N
<b>Formula:</b>	C13H14BrFO4
<b>SMILES:</b>	CCOC(=O)C(C)(C)C(=O)Oc1ccc(F)cc1Br
<b>Mol. weight [g/mol]:</b>	333.15

## Physical Properties

Property code	Value	Unit	Source
gf	-493.76	kJ/mol	Joback Method
hf	-766.19	kJ/mol	Joback Method
hfus	29.21	kJ/mol	Joback Method
hvap	70.77	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.083		Crippen Method
mcvol	204.420	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinpol	1735.00		NIST Webbook
rinpol	1735.00		NIST Webbook
tb	748.26	K	Joback Method
tc	970.01	K	Joback Method
tf	494.86	K	Joback Method
vc	0.772	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	533.32	J/molxK	748.26	Joback Method
cpg	545.36	J/molxK	785.22	Joback Method
cpg	556.48	J/molxK	822.18	Joback Method
cpg	566.70	J/molxK	859.13	Joback Method
cpg	576.07	J/molxK	896.09	Joback Method
cpg	584.60	J/molxK	933.05	Joback Method
cpg	592.34	J/molxK	970.01	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=U361818&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361818&amp;Units=SI</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>hvpap:</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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