

# Dimethylmalonic acid, di(2-bromo-4-fluorophenyl) ester

<b>Inchi:</b>	InChI=1S/C17H12Br2F2O4/c1-17(2,15(22)24-13-5-3-9(20)7-11(13)18)16(23)25-14-6-4-1
<b>InchiKey:</b>	RKMAWGRZJFHJKW-UHFFFAOYSA-N
<b>Formula:</b>	C17H12Br2F2O4
<b>SMILES:</b>	CC(C)(C(=O)Oc1ccc(F)cc1Br)C(=O)Oc1ccc(F)cc1Br
<b>Mol. weight [g/mol]:</b>	478.08

## Physical Properties

Property code	Value	Unit	Source
gf	-547.42	kJ/mol	Joback Method
hf	-804.94	kJ/mol	Joback Method
hfus	41.20	kJ/mol	Joback Method
hvap	88.89	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	5.027		Crippen Method
mcvol	256.290	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinpol	2423.00		NIST Webbook
tb	941.85	K	Joback Method
tc	1187.66	K	Joback Method
tf	651.79	K	Joback Method
vc	0.969	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	683.42	J/molxK	941.85	Joback Method
cpg	692.46	J/molxK	982.82	Joback Method
cpg	700.51	J/molxK	1023.79	Joback Method
cpg	707.64	J/molxK	1064.76	Joback Method
cpg	713.93	J/molxK	1105.72	Joback Method
cpg	719.44	J/molxK	1146.69	Joback Method
cpg	724.23	J/molxK	1187.66	Joback Method

# Sources

<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>
<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=U361827&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U361827&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/59-782-9/Dimethylmalonic-acid-di-2-bromo-4-fluorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-29 15:25:02.150074813 +0000 UTC m=+16693551.070652129.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.