

# Diethylmalonic acid, 4-bromophenyl ethyl ester

Inchi:	InChI=1S/C15H19BrO4/c1-4-15(5-2,13(17)19-6-3)14(18)20-12-9-7-11(16)8-10-12/h7-10
InchiKey:	RTMGFWQMWDZZCG-UHFFFAOYSA-N
Formula:	C15H19BrO4
SMILES:	CCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	343.21

## Physical Properties

Property code	Value	Unit	Source
gf	-272.48	kJ/mol	Joback Method
hf	-599.89	kJ/mol	Joback Method
hfus	31.70	kJ/mol	Joback Method
hvap	75.37	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.724		Crippen Method
mcvol	230.830	ml/mol	McGowan Method
pc	2139.38	kPa	Joback Method
rinpol	2018.00		NIST Webbook
rinpol	2018.00		NIST Webbook
tb	789.77	K	Joback Method
tc	1012.85	K	Joback Method
tf	504.29	K	Joback Method
vc	0.867	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.08	J/molxK	789.77	Joback Method
cpg	691.42	J/molxK	975.67	Joback Method
cpg	681.86	J/molxK	938.49	Joback Method
cpg	671.39	J/molxK	901.31	Joback Method
cpg	659.97	J/molxK	864.13	Joback Method
cpg	647.55	J/molxK	826.95	Joback Method
cpg	700.11	J/molxK	1012.85	Joback Method
dvisc	0.0000713	Paxs	789.77	Joback Method

dvisc	0.0000908	Paxs	742.19	Joback Method
dvisc	0.0001194	Paxs	694.61	Joback Method
dvisc	0.0001634	Paxs	647.03	Joback Method
dvisc	0.0002351	Paxs	599.45	Joback Method
dvisc	0.0003603	Paxs	551.87	Joback Method
dvisc	0.0005983	Paxs	504.29	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U369821&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369821&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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

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