

# Diethylmalonic acid, 4-bromophenyl heptadecyl ester

<b>Inchi:</b>	InChI=1S/C30H49BrO4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-25-34-28(32)30(5
<b>InchiKey:</b>	CQDFGAGXHYNUGT-UHFFFAOYSA-N
<b>Formula:</b>	C30H49BrO4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	553.61

## Physical Properties

Property code	Value	Unit	Source
gf	-146.18	kJ/mol	Joback Method
hf	-909.49	kJ/mol	Joback Method
hfus	70.55	kJ/mol	Joback Method
hvap	108.76	kJ/mol	Joback Method
log10ws	-10.78		Crippen Method
logp	9.576		Crippen Method
mcvol	442.180	ml/mol	McGowan Method
pc	770.75	kPa	Joback Method
rinpol	3518.00		NIST Webbook
rinpol	3518.00		NIST Webbook
tb	1132.97	K	Joback Method
tc	1401.28	K	Joback Method
tf	673.34	K	Joback Method
vc	1.706	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1535.86	J/molxK	1132.97	Joback Method
cpg	1553.82	J/molxK	1177.69	Joback Method
cpg	1570.15	J/molxK	1222.41	Joback Method
cpg	1585.02	J/molxK	1267.12	Joback Method
cpg	1598.61	J/molxK	1311.84	Joback Method
cpg	1611.08	J/molxK	1356.56	Joback Method
cpg	1622.61	J/molxK	1401.28	Joback Method
dvisc	0.0000907	Paxs	673.34	Joback Method

dvisc	0.0000467	Paxs	749.94	Joback Method
dvisc	0.0000272	Paxs	826.55	Joback Method
dvisc	0.0000173	Paxs	903.15	Joback Method
dvisc	0.0000119	Paxs	979.76	Joback Method
dvisc	0.0000086	Paxs	1056.36	Joback Method
dvisc	0.0000065	Paxs	1132.97	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=U369834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U369834&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/98-932-9/Diethylmalonic-acid-4-bromophenyl-heptadecyl-ester.pdf>

Generated by Cheméo on 2024-04-23 11:22:08.899863205 +0000 UTC m=+16160577.820440521.

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