

# Diethylmalonic acid, 3-bromobenzyl nonyl ester

Inchi:	InChI=1S/C23H35BrO4/c1-4-7-8-9-10-11-12-16-27-21(25)23(5-2,6-3)22(26)28-18-19-14
InchiKey:	SLMPIBBEDMOBRA-UHFFFAOYSA-N
Formula:	C23H35BrO4
SMILES:	CCCCCCCCCOC(=O)C(CC)(CC)C(=O)OCc1cccc(Br)c1
Mol. weight [g/mol]:	455.43

## Physical Properties

Property code	Value	Unit	Source
gf	-205.12	kJ/mol	Joback Method
hf	-765.01	kJ/mol	Joback Method
hfus	52.42	kJ/mol	Joback Method
hvap	93.18	kJ/mol	Joback Method
log10ws	-7.69		Crippen Method
logp	6.593		Crippen Method
mcvol	343.550	ml/mol	McGowan Method
pc	1164.84	kPa	Joback Method
rinpol	2737.00		NIST Webbook
tb	972.81	K	Joback Method
tc	1193.48	K	Joback Method
tf	594.45	K	Joback Method
vc	1.315	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1098.56	J/molxK	972.81	Joback Method
cpg	1113.78	J/molxK	1009.59	Joback Method
cpg	1127.79	J/molxK	1046.37	Joback Method
cpg	1140.68	J/molxK	1083.15	Joback Method
cpg	1152.50	J/molxK	1119.93	Joback Method
cpg	1163.34	J/molxK	1156.71	Joback Method
cpg	1173.27	J/molxK	1193.48	Joback Method
dvisc	0.0002351	Paxs	594.45	Joback Method
dvisc	0.0001290	Paxs	657.51	Joback Method

dvisc	0.0000786	Paxs	720.57	Joback Method
dvisc	0.0000519	Paxs	783.63	Joback Method
dvisc	0.0000364	Paxs	846.69	Joback Method
dvisc	0.0000269	Paxs	909.75	Joback Method
dvisc	0.0000206	Paxs	972.81	Joback Method

## Sources

<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=U368417&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U368417&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>

## 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/22-328-3/Diethylmalonic-acid-3-bromobenzyl-nonyl-ester.pdf>

Generated by Cheméo on 2024-04-26 21:01:20.482603975 +0000 UTC m=+16454529.403181290.

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