

# Diethyl, dipropargyl malonate

<b>Inchi:</b>	InChI=1S/C13H16O4/c1-5-9-13(10-6-2,11(14)16-7-3)12(15)17-8-4/h1-2H,7-10H2,3-4H3
<b>InchiKey:</b>	MYZCCWFBKBDURM-UHFFFAOYSA-N
<b>Formula:</b>	C13H16O4
<b>SMILES:</b>	<chem>C#CCC(CC#C)(C(=O)OCC)C(=O)OCC</chem>
<b>Mol. weight [g/mol]:</b>	236.26
<b>CAS:</b>	2689-88-5

## Physical Properties

Property code	Value	Unit	Source
gf	39.72	kJ/mol	Joback Method
hf	-226.20	kJ/mol	Joback Method
hfus	33.54	kJ/mol	Joback Method
hvap	61.26	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	1.146		Crippen Method
mcvol	191.710	ml/mol	McGowan Method
pc	2358.78	kPa	Joback Method
tb	626.43	K	Joback Method
tc	832.14	K	Joback Method
tf	476.95	K	Joback Method
vc	0.725	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.82	J/molxK	626.43	Joback Method
cpg	496.29	J/molxK	660.71	Joback Method
cpg	508.95	J/molxK	695.00	Joback Method
cpg	520.84	J/molxK	729.28	Joback Method
cpg	532.00	J/molxK	763.57	Joback Method
cpg	542.44	J/molxK	797.85	Joback Method
cpg	552.20	J/molxK	832.14	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=C2689885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2689885&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>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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