

# Methacrylic acid, tridecyl ester

<b>Other names:</b>	tridecyl methacrylate
<b>Inchi:</b>	InChI=1S/C17H32O2/c1-4-5-6-7-8-9-10-11-12-13-14-15-19-17(18)16(2)3/h2,4-15H2,1,3H
<b>InchiKey:</b>	KEROTHRUZYBWCY-UHFFFAOYSA-N
<b>Formula:</b>	C17H32O2
<b>SMILES:</b>	<chem>C=C(C)C(=O)OCCCCCCCCCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	268.43
<b>CAS:</b>	2495-25-2

## Physical Properties

Property code	Value	Unit	Source
gf	-62.37	kJ/mol	Joback Method
hf	-523.37	kJ/mol	Joback Method
hfus	39.98	kJ/mol	Joback Method
hvap	62.00	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.417		Crippen Method
mcvol	253.530	ml/mol	McGowan Method
pc	1315.61	kPa	Joback Method
rinpol	1874.00		NIST Webbook
tb	661.21	K	Joback Method
tc	832.34	K	Joback Method
tf	337.79	K	Joback Method
vc	0.994	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.52	J/mol×K	661.21	Joback Method
cpg	726.55	J/mol×K	689.73	Joback Method
cpg	743.77	J/mol×K	718.25	Joback Method
cpg	760.21	J/mol×K	746.78	Joback Method
cpg	775.89	J/mol×K	775.30	Joback Method
cpg	790.83	J/mol×K	803.82	Joback Method
cpg	805.05	J/mol×K	832.34	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2495252&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2495252&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>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>hvpap:</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>rinppl:</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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