

# Fumaric acid, 3-methylbut-3-enyl octyl ester

<b>Inchi:</b>	InChI=1S/C17H28O4/c1-4-5-6-7-8-9-13-20-16(18)10-11-17(19)21-14-12-15(2)3/h10-11H
<b>InchiKey:</b>	CVVXSSZKVDHVKN-ZHACJKMWSA-N
<b>Formula:</b>	C17H28O4
<b>SMILES:</b>	<chem>C=C(C)CCOC(=O)C=CC(=O)OCCCCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	296.40

## Physical Properties

Property code	Value	Unit	Source
gf	-216.07	kJ/mol	Joback Method
hf	-650.95	kJ/mol	Joback Method
hfus	42.97	kJ/mol	Joback Method
hvap	71.12	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	3.956		Crippen Method
mvol	256.670	ml/mol	McGowan Method
pc	1414.37	kPa	Joback Method
rinpol	2065.00		NIST Webbook
rinpol	2065.00		NIST Webbook
tb	741.66	K	Joback Method
tc	925.94	K	Joback Method
tf	404.87	K	Joback Method
vc	0.998	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.73	J/mol×K	741.66	Joback Method
cpg	757.81	J/mol×K	772.37	Joback Method
cpg	773.04	J/mol×K	803.09	Joback Method
cpg	787.44	J/mol×K	833.80	Joback Method
cpg	801.05	J/mol×K	864.51	Joback Method
cpg	813.87	J/mol×K	895.23	Joback Method
cpg	825.93	J/mol×K	925.94	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348907&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348907&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>hvp:</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>rinp:</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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