

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

<b>Inchi:</b>	InChI=1S/C16H26O4/c1-4-5-6-7-8-12-19-15(17)9-10-16(18)20-13-11-14(2)3/h9-10H,2,4-
<b>InchiKey:</b>	QGYGNMSZHBWCH-MDZDMXLPSA-N
<b>Formula:</b>	C16H26O4
<b>SMILES:</b>	C=C(C)CCOC(=O)C=CC(=O)OCCCCCCC
<b>Mol. weight [g/mol]:</b>	282.38

## Physical Properties

Property code	Value	Unit	Source
gf	-224.49	kJ/mol	Joback Method
hf	-630.31	kJ/mol	Joback Method
hfus	40.38	kJ/mol	Joback Method
hvap	68.89	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.566		Crippen Method
mvol	242.580	ml/mol	McGowan Method
pc	1522.31	kPa	Joback Method
rinpol	1967.00		NIST Webbook
rinpol	1967.00		NIST Webbook
tb	718.78	K	Joback Method
tc	903.14	K	Joback Method
tf	393.60	K	Joback Method
vc	0.942	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.50	J/molxK	718.78	Joback Method
cpg	701.18	J/molxK	749.51	Joback Method
cpg	716.04	J/molxK	780.23	Joback Method
cpg	730.11	J/molxK	810.96	Joback Method
cpg	743.41	J/molxK	841.69	Joback Method
cpg	755.95	J/molxK	872.41	Joback Method
cpg	767.77	J/molxK	903.14	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348906&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

Latest version available from:

<https://www.chemeo.com/cid/18-328-8/Fumaric-acid-heptyl-3-methylbut-3-enyl-ester.pdf>

Generated by Cheméo on 2024-04-27 07:50:14.300101231 +0000 UTC m=+16493463.220678553.

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