

# Fumaric acid, 3,3-dimethylbut-2-yl propyl ester

<b>Inchi:</b>	InChI=1S/C13H22O4/c1-6-9-16-11(14)7-8-12(15)17-10(2)13(3,4)5/h7-8,10H,6,9H2,1-5H
<b>InchiKey:</b>	OWDRQADJYYCLG-BQYQJAHWSA-N
<b>Formula:</b>	C13H22O4
<b>SMILES:</b>	CCCOC(=O)C=CC(=O)OC(C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	242.31

## Physical Properties

Property code	Value	Unit	Source
gf	-328.64	kJ/mol	Joback Method
hf	-698.06	kJ/mol	Joback Method
hfus	24.27	kJ/mol	Joback Method
hvap	61.12	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.474		Crippen Method
mcvol	204.610	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpol	1537.00		NIST Webbook
rinpol	1537.00		NIST Webbook
tb	649.91	K	Joback Method
tc	843.73	K	Joback Method
tf	362.93	K	Joback Method
vc	0.774	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	550.22	J/molxK	649.91	Joback Method
cpg	565.66	J/molxK	682.21	Joback Method
cpg	580.25	J/molxK	714.52	Joback Method
cpg	594.01	J/molxK	746.82	Joback Method
cpg	606.98	J/molxK	779.12	Joback Method
cpg	619.18	J/molxK	811.43	Joback Method
cpg	630.63	J/molxK	843.73	Joback Method
dvisc	0.0020140	Paxs	362.93	Joback Method

dvisc	0.0008956	Paxs	410.76	Joback Method
dvisc	0.0004717	Paxs	458.59	Joback Method
dvisc	0.0002804	Paxs	506.42	Joback Method
dvisc	0.0001823	Paxs	554.25	Joback Method
dvisc	0.0001269	Paxs	602.08	Joback Method
dvisc	0.0000932	Paxs	649.91	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348700&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348700&amp;Units=SI</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

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