

# Fumaric acid, 2,4-dimethylpent-3-yl isoheptyl ester

Inchi:	InChI=1S/C17H30O4/c1-12(2)8-7-11-20-15(18)9-10-16(19)21-17(13(3)4)14(5)6/h9-10,12
InchiKey:	NWCXINUHLFDREU-MDZDMXLPSA-N
Formula:	C17H30O4
SMILES:	CC(C)CCCOC(=O)C=CC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	-305.12	kJ/mol	Joback Method
hf	-787.71	kJ/mol	Joback Method
hfus	31.47	kJ/mol	Joback Method
hvap	70.15	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.746		Crippen Method
mcvol	260.970	ml/mol	McGowan Method
pc	1398.55	kPa	Joback Method
rinpol	1875.00		NIST Webbook
rinpol	1875.00		NIST Webbook
tb	743.34	K	Joback Method
tc	932.50	K	Joback Method
tf	360.59	K	Joback Method
vc	0.992	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	769.28	J/molxK	743.34	Joback Method
cpg	786.54	J/molxK	774.87	Joback Method
cpg	802.83	J/molxK	806.39	Joback Method
cpg	818.19	J/molxK	837.92	Joback Method
cpg	832.62	J/molxK	869.44	Joback Method
cpg	846.14	J/molxK	900.97	Joback Method
cpg	858.79	J/molxK	932.50	Joback Method
dvisc	0.0026689	Paxs	360.59	Joback Method

dvisc	0.0008393	Paxs	424.38	Joback Method
dvisc	0.0003571	Paxs	488.17	Joback Method
dvisc	0.0001851	Paxs	551.96	Joback Method
dvisc	0.0001100	Paxs	615.76	Joback Method
dvisc	0.0000720	Paxs	679.55	Joback Method
dvisc	0.0000507	Paxs	743.34	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348546&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348546&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>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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