

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

Inchi:	InChI=1S/C15H26O4/c1-10(2)9-18-13(16)7-8-14(17)19-15(11(3)4)12(5)6/h7-8,10-12,15H
InchiKey:	QANAKYZRMNKEAK-BQYQJAHWSA-N
Formula:	C15H26O4
SMILES:	CC(C)COC(=O)C=CC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	270.36

## Physical Properties

Property code	Value	Unit	Source
gf	-321.96	kJ/mol	Joback Method
hf	-746.43	kJ/mol	Joback Method
hfus	26.29	kJ/mol	Joback Method
hvap	65.70	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.966		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1623.29	kPa	Joback Method
rinpol	1676.00		NIST Webbook
rinpol	1676.00		NIST Webbook
tb	697.58	K	Joback Method
tc	888.50	K	Joback Method
tf	338.05	K	Joback Method
vc	0.879	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.61	J/molxK	697.58	Joback Method
cpg	730.82	J/molxK	856.68	Joback Method
cpg	717.70	J/molxK	824.86	Joback Method
cpg	703.74	J/molxK	793.04	Joback Method
cpg	688.92	J/molxK	761.22	Joback Method
cpg	673.21	J/molxK	729.40	Joback Method
cpg	743.10	J/molxK	888.50	Joback Method
dvisc	0.0000667	Paxs	697.58	Joback Method

dvisc	0.0000946	Paxs	637.66	Joback Method
dvisc	0.0001440	Paxs	577.74	Joback Method
dvisc	0.0002418	Paxs	517.81	Joback Method
dvisc	0.0004649	Paxs	457.89	Joback Method
dvisc	0.0010885	Paxs	397.97	Joback Method
dvisc	0.0034453	Paxs	338.05	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=U348543&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348543&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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