

# Fumaric acid, isohexyl pent-4-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C15H24O4/c1-5-7-13(4)19-15(17)10-9-14(16)18-11-6-8-12(2)3/h5,9-10,12-13H
<b>InchiKey:</b>	UKGGBDYWJNILMW-MDZDMXLPSA-N
<b>Formula:</b>	C15H24O4
<b>SMILES:</b>	<chem>C=CCC(C)OC(=O)C=CC(=O)OCCCC(C)C</chem>
<b>Mol. weight [g/mol]:</b>	268.35

## Physical Properties

Property code	Value	Unit	Source
gf	-229.24	kJ/mol	Joback Method
hf	-610.44	kJ/mol	Joback Method
hfus	32.06	kJ/mol	Joback Method
hvap	65.81	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	3.030		Crippen Method
mcvol	228.490	ml/mol	McGowan Method
pc	1657.84	kPa	Joback Method
rinpol	1755.00		NIST Webbook
rinpol	1755.00		NIST Webbook
tb	695.14	K	Joback Method
tc	883.11	K	Joback Method
tf	366.29	K	Joback Method
vc	0.873	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	631.73	J/molxK	695.14	Joback Method
cpg	647.29	J/molxK	726.47	Joback Method
cpg	662.03	J/molxK	757.80	Joback Method
cpg	675.96	J/molxK	789.12	Joback Method
cpg	689.11	J/molxK	820.45	Joback Method
cpg	701.49	J/molxK	851.78	Joback Method
cpg	713.12	J/molxK	883.11	Joback Method
dvisc	0.0019351	Paxs	366.29	Joback Method

dvisc	0.0008114	Paxs	421.10	Joback Method
dvisc	0.0004156	Paxs	475.91	Joback Method
dvisc	0.0002444	Paxs	530.72	Joback Method
dvisc	0.0001588	Paxs	585.52	Joback Method
dvisc	0.0001110	Paxs	640.33	Joback Method
dvisc	0.0000822	Paxs	695.14	Joback Method

## Sources

<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=U348925&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348925&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>

## 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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