

# Fumaric acid, di(cis-hex-3-enyl) ester

<b>Other names:</b>	(Z)-Hexenyl fumarate
<b>Inchi:</b>	InChI=1S/C16H24O4/c1-3-5-7-9-13-19-15(17)11-12-16(18)20-14-10-8-6-4-2/h5-8,11-12H
<b>InchiKey:</b>	QGNBTOILRVTESN-XGNN SBLXSA-N
<b>Formula:</b>	C16H24O4
<b>SMILES:</b>	CCC=CCCOC(=O)C=CC(=O)OCCC=CCC
<b>Mol. weight [g/mol]:</b>	280.36

## Physical Properties

Property code	Value	Unit	Source
gf	-143.34	kJ/mol	Joback Method
hf	-511.51	kJ/mol	Joback Method
hfus	43.38	kJ/mol	Joback Method
hvap	69.40	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.342		Crippen Method
mvol	238.280	ml/mol	McGowan Method
pc	1592.35	kPa	Joback Method
tb	730.54	K	Joback Method
tc	921.10	K	Joback Method
tf	399.16	K	Joback Method
vc	0.919	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	663.30	J/molxK	730.54	Joback Method
cpg	678.33	J/molxK	762.30	Joback Method
cpg	692.57	J/molxK	794.06	Joback Method
cpg	706.05	J/molxK	825.82	Joback Method
cpg	718.80	J/molxK	857.58	Joback Method
cpg	730.86	J/molxK	889.34	Joback Method
cpg	742.28	J/molxK	921.10	Joback Method
dvisc	0.0010046	Paxs	399.16	Joback Method
dvisc	0.0004718	Paxs	454.39	Joback Method

dvisc	0.0002610	Paxs	509.62	Joback Method
dvisc	0.0001621	Paxs	564.85	Joback Method
dvisc	0.0001096	Paxs	620.08	Joback Method
dvisc	0.0000790	Paxs	675.31	Joback Method
dvisc	0.0000598	Paxs	730.54	Joback Method

## Sources

<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=U348876&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348876&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>

## 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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