

# Fumaric acid, propyl trans-hex-3-enyl ester

<b>Inchi:</b>	InChI=1S/C13H20O4/c1-3-5-6-7-11-17-13(15)9-8-12(14)16-10-4-2/h5-6,8-9H,3-4,7,10-11H
<b>InchiKey:</b>	SSGOPRWMTHYQSV-HHWLVVFRSA-N
<b>Formula:</b>	C13H20O4
<b>SMILES:</b>	CCC=CCCOC(=O)C=CC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	240.30

## Physical Properties

Property code	Value	Unit	Source
gf	-248.82	kJ/mol	Joback Method
hf	-566.81	kJ/mol	Joback Method
hfus	35.40	kJ/mol	Joback Method
hvap	62.76	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.395		Crippen Method
mcvol	200.310	ml/mol	McGowan Method
pc	1940.65	kPa	Joback Method
rinsol	1676.00		NIST Webbook
tb	657.74	K	Joback Method
tc	846.12	K	Joback Method
tf	370.43	K	Joback Method
vc	0.771	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.14	J/molxK	657.74	Joback Method
cpg	539.27	J/molxK	689.14	Joback Method
cpg	552.69	J/molxK	720.53	Joback Method
cpg	565.41	J/molxK	751.93	Joback Method
cpg	577.46	J/molxK	783.32	Joback Method
cpg	588.85	J/molxK	814.72	Joback Method
cpg	599.61	J/molxK	846.12	Joback Method
dvisc	0.0013734	Paxs	370.43	Joback Method
dvisc	0.0006908	Paxs	418.31	Joback Method

dvisc	0.0004002	Paxs	466.20	Joback Method
dvisc	0.0002566	Paxs	514.09	Joback Method
dvisc	0.0001775	Paxs	561.97	Joback Method
dvisc	0.0001301	Paxs	609.86	Joback Method
dvisc	0.0000998	Paxs	657.74	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348883&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348883&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

Latest version available from:

<https://www.chemeo.com/cid/46-340-3/Fumaric-acid-propyl-trans-hex-3-enyl-ester.pdf>

Generated by Cheméo on 2024-04-19 14:22:50.272112786 +0000 UTC m=+15825819.192690101.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.