

# Fumaric acid, 4-methylpent-2-yl tetradecyl ester

Inchi:	InChI=1S/C24H44O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-19-27-23(25)17-18-24(26)28-2
InchiKey:	GDJVYZAFHFYSFN-ISLYRVAYSA-N
Formula:	C24H44O4
SMILES:	CCCCCCCCCCCCCOC(=O)C=CC(=O)OC(C)CC(C)C
Mol. weight [g/mol]:	396.60

## Physical Properties

Property code	Value	Unit	Source
gf	-241.30	kJ/mol	Joback Method
hf	-921.63	kJ/mol	Joback Method
hfus	56.65	kJ/mol	Joback Method
hvap	86.51	kJ/mol	Joback Method
log10ws	-7.32		Crippen Method
logp	6.765		Crippen Method
mvol	359.600	ml/mol	McGowan Method
pc	884.72	kPa	Joback Method
rinpol	2647.00		NIST Webbook
rinpol	2647.00		NIST Webbook
tb	904.38	K	Joback Method
tc	1107.28	K	Joback Method
tf	469.48	K	Joback Method
vc	1.395	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1191.39	J/molxK	904.38	Joback Method
cpg	1210.84	J/molxK	938.20	Joback Method
cpg	1228.98	J/molxK	972.01	Joback Method
cpg	1245.87	J/molxK	1005.83	Joback Method
cpg	1261.54	J/molxK	1039.64	Joback Method
cpg	1276.05	J/molxK	1073.46	Joback Method
cpg	1289.44	J/molxK	1107.28	Joback Method
dvisc	0.0006695	Paxs	469.48	Joback Method

dvisc	0.0002572	Paxs	541.96	Joback Method
dvisc	0.0001238	Paxs	614.45	Joback Method
dvisc	0.0000695	Paxs	686.93	Joback Method
dvisc	0.0000436	Paxs	759.41	Joback Method
dvisc	0.0000297	Paxs	831.90	Joback Method
dvisc	0.0000215	Paxs	904.38	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=U348328&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348328&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>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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