

# Fumaric acid, 3-methylbut-3-enyl pentadecyl ester

Inchi:	InChI=1S/C24H42O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-20-27-23(25)17-18-24(26)28
InchiKey:	MIXKGVXNMGZURA-ISLYRVAYSA-N
Formula:	C24H42O4
SMILES:	C=C(C)CCOC(=O)C=CC(=O)OCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	394.59

## Physical Properties

Property code	Value	Unit	Source
gf	-157.13	kJ/mol	Joback Method
hf	-795.43	kJ/mol	Joback Method
hfus	61.10	kJ/mol	Joback Method
hvap	86.70	kJ/mol	Joback Method
log10ws	-7.30		Crippen Method
logp	6.686		Crippen Method
mcvol	355.300	ml/mol	McGowan Method
pc	901.26	kPa	Joback Method
rinpol	2762.00		NIST Webbook
tb	901.82	K	Joback Method
tc	1104.14	K	Joback Method
tf	483.76	K	Joback Method
vc	1.389	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1161.27	J/molxK	901.82	Joback Method
cpg	1180.24	J/molxK	935.54	Joback Method
cpg	1198.01	J/molxK	969.26	Joback Method
cpg	1214.61	J/molxK	1002.98	Joback Method
cpg	1230.09	J/molxK	1036.70	Joback Method
cpg	1244.52	J/molxK	1070.42	Joback Method
cpg	1257.93	J/molxK	1104.14	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U348914&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348914&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>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>h vap:</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>m cvol:</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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