

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

Inchi:	InChI=1S/C20H34O4/c1-4-5-6-7-8-9-10-11-12-16-23-19(21)13-14-20(22)24-17-15-18(2)3
InchiKey:	VWMDQEGIJATUJW-BUHFOSPRSA-N
Formula:	C20H34O4
SMILES:	C=C(C)CCOC(=O)C=CC(=O)OCCCCCCCCCCCC
Mol. weight [g/mol]:	338.48

## Physical Properties

Property code	Value	Unit	Source
gf	-190.81	kJ/mol	Joback Method
hf	-712.87	kJ/mol	Joback Method
hfus	50.74	kJ/mol	Joback Method
hvap	77.79	kJ/mol	Joback Method
log10ws	-5.63		Crippen Method
logp	5.126		Crippen Method
mcvol	298.940	ml/mol	McGowan Method
pc	1151.44	kPa	Joback Method
rinpol	2364.00		NIST Webbook
tb	810.30	K	Joback Method
tc	997.87	K	Joback Method
tf	438.68	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.54	J/mol×K	810.30	Joback Method
cpg	933.77	J/mol×K	841.56	Joback Method
cpg	950.03	J/mol×K	872.82	Joback Method
cpg	965.35	J/mol×K	904.08	Joback Method
cpg	979.76	J/mol×K	935.35	Joback Method
cpg	993.30	J/mol×K	966.61	Joback Method
cpg	1005.99	J/mol×K	997.87	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=U348910&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348910&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</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/39-478-9/Fumaric-acid-3-methylbut-3-enyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-04-26 14:51:44.908090314 +0000 UTC m=+16432353.828667630.

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