

# Fumaric acid, 2,4,4-trimethylpentyl hex-4-yn-3-yl ester

<b>Inchi:</b>	InChI=1S/C18H28O4/c1-7-9-15(8-2)22-17(20)11-10-16(19)21-13-14(3)12-18(4,5)6/h10-1
<b>InchiKey:</b>	YDESRAGTKNNVKN-ZHACJKMWSA-N
<b>Formula:</b>	C18H28O4
<b>SMILES:</b>	CC#CC(CC)OC(=O)C=CC(=O)OCC(C)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	308.41

## Physical Properties

Property code	Value	Unit	Source
gf	-86.18	kJ/mol	Joback Method
hf	-534.24	kJ/mol	Joback Method
hfus	36.81	kJ/mol	Joback Method
hvap	74.01	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	3.503		Crippen Method
mvol	266.460	ml/mol	McGowan Method
pc	1471.36	kPa	Joback Method
rinpol	2002.00		NIST Webbook
rinpol	2002.00		NIST Webbook
tb	772.87	K	Joback Method
tc	977.74	K	Joback Method
tf	510.38	K	Joback Method
vc	1.010	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	779.96	J/molxK	772.87	Joback Method
cpg	796.84	J/molxK	807.02	Joback Method
cpg	812.68	J/molxK	841.16	Joback Method
cpg	827.52	J/molxK	875.31	Joback Method
cpg	841.40	J/molxK	909.45	Joback Method
cpg	854.35	J/molxK	943.60	Joback Method
cpg	866.43	J/molxK	977.74	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U405605&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405605&amp;Units=SI</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>hvp:</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>rinp:</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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