

# Fumaric acid, 3-phenylpropyl tridec-2-yn-1-yl ester

Inchi:	InChI=1S/C26H36O4/c1-2-3-4-5-6-7-8-9-10-11-15-22-29-25(27)20-21-26(28)30-23-16-19
InchiKey:	UVRMUMLPAPFYPES-QZQOTICOSA-N
Formula:	C26H36O4
SMILES:	CCCCCCCCCCC#CCOC(=O)C=CC(=O)OCCCC1CCCC1
Mol. weight [g/mol]:	412.56

## Physical Properties

Property code	Value	Unit	Source
gf	95.63	kJ/mol	Joback Method
hf	-443.52	kJ/mol	Joback Method
hfus	66.03	kJ/mol	Joback Method
hvap	96.17	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.796		Crippen Method
mvol	355.420	ml/mol	McGowan Method
pc	1054.83	kPa	Joback Method
rinpol	3098.00		NIST Webbook
rinpol	3098.00		NIST Webbook
tb	986.70	K	Joback Method
tc	1209.16	K	Joback Method
tf	654.54	K	Joback Method
vc	1.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1159.54	J/mol×K	986.70	Joback Method
cpg	1175.74	J/mol×K	1023.78	Joback Method
cpg	1190.63	J/mol×K	1060.85	Joback Method
cpg	1204.31	J/mol×K	1097.93	Joback Method
cpg	1216.82	J/mol×K	1135.01	Joback Method
cpg	1228.25	J/mol×K	1172.08	Joback Method
cpg	1238.65	J/mol×K	1209.16	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=U405673&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405673&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>
<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>

# 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>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>rinpola:</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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