

# Fumaric acid, 2-methoxyphenyl tridec-2-yn-1-yl ester

Inchi:	InChI=1S/C24H32O5/c1-3-4-5-6-7-8-9-10-11-12-15-20-28-23(25)18-19-24(26)29-22-17-
InchiKey:	JPSRYUVRDCWTHI-VHEBQXMUSA-N
Formula:	C24H32O5
SMILES:	CCCCCCCCC#CCOC(=O)C=CC(=O)Oc1ccccc1OC
Mol. weight [g/mol]:	400.51

## Physical Properties

Property code	Value	Unit	Source
gf	-35.84	kJ/mol	Joback Method
hf	-545.93	kJ/mol	Joback Method
hfus	61.65	kJ/mol	Joback Method
hvap	94.79	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	5.234		Crippen Method
mvol	333.110	ml/mol	McGowan Method
pc	1173.63	kPa	Joback Method
rmpol	2996.00		NIST Webbook
rmpol	2996.00		NIST Webbook
tb	968.34	K	Joback Method
tc	1188.83	K	Joback Method
tf	666.75	K	Joback Method
vc	1.280	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1064.84	J/molxK	968.34	Joback Method
cpg	1079.76	J/molxK	1005.09	Joback Method
cpg	1093.31	J/molxK	1041.84	Joback Method
cpg	1105.51	J/molxK	1078.59	Joback Method
cpg	1116.42	J/molxK	1115.33	Joback Method
cpg	1126.05	J/molxK	1152.08	Joback Method
cpg	1134.46	J/molxK	1188.83	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=U405942&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405942&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>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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