

# m-Toluic acid, undec-2-enyl ester

<b>Other names:</b>	m-toluylic acid, undec-2-enyl ester
<b>Inchi:</b>	InChI=1S/C19H28O2/c1-3-4-5-6-7-8-9-10-11-15-21-19(20)18-14-12-13-17(2)16-18/h10-1
<b>InchiKey:</b>	ZSAPDTFGSLSORB-ZHACJKMWSA-N
<b>Formula:</b>	C19H28O2
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)c1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	288.42

## Physical Properties

Property code	Value	Unit	Source
gf	58.18	kJ/mol	Joback Method
hf	-338.01	kJ/mol	Joback Method
hfus	41.61	kJ/mol	Joback Method
hvap	69.94	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	5.459		Crippen Method
mcvol	257.950	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinpol	2209.90		NIST Webbook
rinpol	2209.90		NIST Webbook
tb	746.23	K	Joback Method
tc	943.58	K	Joback Method
tf	409.91	K	Joback Method
vc	0.996	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.01	J/molxK	746.23	Joback Method
cpg	761.47	J/molxK	779.12	Joback Method
cpg	777.94	J/molxK	812.01	Joback Method
cpg	793.45	J/molxK	844.90	Joback Method
cpg	808.04	J/molxK	877.79	Joback Method
cpg	821.75	J/molxK	910.69	Joback Method
cpg	834.64	J/molxK	943.58	Joback Method

dvisc	0.0010565	Paxs	409.91	Joback Method
dvisc	0.0005184	Paxs	465.96	Joback Method
dvisc	0.0002964	Paxs	522.02	Joback Method
dvisc	0.0001889	Paxs	578.07	Joback Method
dvisc	0.0001303	Paxs	634.12	Joback Method
dvisc	0.0000955	Paxs	690.18	Joback Method
dvisc	0.0000733	Paxs	746.23	Joback Method

## Sources

<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=U292613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292613&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</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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