

# Myristic acid, 3-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C21H34O2/c1-3-4-5-6-7-8-9-10-11-12-13-17-21(22)23-20-16-14-15-19(2)18-20
<b>InchiKey:</b>	JDEVARUXESBALF-UHFFFAOYSA-N
<b>Formula:</b>	C21H34O2
<b>SMILES:</b>	CCCCCCCCCCCCC(=O)Oc1cccc(C)c1
<b>Mol. weight [g/mol]:</b>	318.49

## Physical Properties

Property code	Value	Unit	Source
gf	-5.20	kJ/mol	Joback Method
hf	-496.51	kJ/mol	Joback Method
hfus	46.58	kJ/mol	Joback Method
hvap	74.43	kJ/mol	Joback Method
log10ws	-7.28		Crippen Method
logp	6.602		Crippen Method
mcvol	290.430	ml/mol	McGowan Method
pc	1212.36	kPa	Joback Method
rinpol	2418.00		NIST Webbook
tb	787.83	K	Joback Method
tc	979.38	K	Joback Method
tf	437.53	K	Joback Method
vc	1.127	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	885.17	J/molxK	787.83	Joback Method
cpg	967.02	J/molxK	947.45	Joback Method
cpg	952.64	J/molxK	915.53	Joback Method
cpg	937.30	J/molxK	883.60	Joback Method
cpg	920.96	J/molxK	851.68	Joback Method
cpg	903.60	J/molxK	819.75	Joback Method
cpg	980.48	J/molxK	979.38	Joback Method
dvisc	0.0000654	Paxs	787.83	Joback Method
dvisc	0.0000854	Paxs	729.45	Joback Method

dvisc	0.0001170	Paxs	671.06	Joback Method
dvisc	0.0001702	Paxs	612.68	Joback Method
dvisc	0.0002679	Paxs	554.30	Joback Method
dvisc	0.0004692	Paxs	495.91	Joback Method
dvisc	0.0009543	Paxs	437.53	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.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=U357929&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357929&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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/30-952-1/Myristic-acid-3-methylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-17 20:37:45.499263018 +0000 UTC m=+15675514.419840329.

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