

# m-Toluic acid, cyclobutyl ester

<b>Other names:</b>	m-toluylic acid, cyclobutyl ester
<b>Inchi:</b>	InChI=1S/C12H14O2/c1-9-4-2-5-10(8-9)12(13)14-11-6-3-7-11/h2,4-5,8,11H,3,6-7H2,1H3
<b>InchiKey:</b>	YEIVCBOAULAPEE-UHFFFAOYSA-N
<b>Formula:</b>	C12H14O2
<b>SMILES:</b>	<chem>Cc1cccc(C(=O)OC2CCC2)c1</chem>
<b>Mol. weight [g/mol]:</b>	190.24

## Physical Properties

Property code	Value	Unit	Source
gf	-32.33	kJ/mol	Joback Method
hf	-244.11	kJ/mol	Joback Method
hfus	19.31	kJ/mol	Joback Method
hvap	54.48	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	2.704		Crippen Method
mcvol	152.760	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
rinpol	1532.10		NIST Webbook
rinpol	1532.10		NIST Webbook
tb	592.92	K	Joback Method
tc	822.69	K	Joback Method
tf	350.52	K	Joback Method
vc	0.573	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.39	J/mol×K	592.92	Joback Method
cpg	452.21	J/mol×K	784.40	Joback Method
cpg	439.87	J/mol×K	746.10	Joback Method
cpg	426.56	J/mol×K	707.81	Joback Method
cpg	412.25	J/mol×K	669.51	Joback Method
cpg	396.87	J/mol×K	631.22	Joback Method
cpg	463.63	J/mol×K	822.69	Joback Method

dvisc	0.0003270	Paxs	592.92	Joback Method
dvisc	0.0003929	Paxs	552.52	Joback Method
dvisc	0.0004859	Paxs	512.12	Joback Method
dvisc	0.0006232	Paxs	471.72	Joback Method
dvisc	0.0008375	Paxs	431.32	Joback Method
dvisc	0.0011964	Paxs	390.92	Joback Method
dvisc	0.0018554	Paxs	350.52	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=U292232&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292232&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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/68-196-0/m-Toluic-acid-cyclobutyl-ester.pdf>

Generated by Cheméo on 2024-04-19 20:28:20.559656896 +0000 UTC m=+15847749.480234219.

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