

m-Toluic acid, hexyl ester

Other names:	m-Toluylic acid, hexyl ester Hexyl 3-methylbenzoate
Inchi:	InChI=1S/C14H20O2/c1-3-4-5-6-10-16-14(15)13-9-7-8-12(2)11-13/h7-9,11H,3-6,10H2,1H
InchiKey:	GYAMMOVKXUZHFX-UHFFFAOYSA-N
Formula:	C14H20O2
SMILES:	CCCCCOC(=O)c1cccc(C)c1
Mol. weight [g/mol]:	220.31
CAS:	67101-63-7

Physical Properties

Property code	Value	Unit	Source
gf	-64.14	kJ/mol	Joback Method
hf	-352.03	kJ/mol	Joback Method
hfus	28.46	kJ/mol	Joback Method
hvap	58.85	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.732		Crippen Method
mcvol	191.800	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
rinpol	1707.00		NIST Webbook
rinpol	1645.00		NIST Webbook
rinpol	1645.00		NIST Webbook
rinpol	1707.00		NIST Webbook
tb	627.67	K	Joback Method
tc	828.65	K	Joback Method
tf	358.64	K	Joback Method
vc	0.736	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.85	J/mol×K	627.67	Joback Method
cpg	509.98	J/mol×K	661.17	Joback Method
cpg	525.23	J/mol×K	694.66	Joback Method

cpg	539.64	J/mol×K	728.16	Joback Method
cpg	553.21	J/mol×K	761.65	Joback Method
cpg	565.96	J/mol×K	795.15	Joback Method
cpg	577.93	J/mol×K	828.65	Joback Method
dvisc	0.0015939	Pa×s	358.64	Joback Method
dvisc	0.0008632	Pa×s	403.48	Joback Method
dvisc	0.0005285	Pa×s	448.32	Joback Method
dvisc	0.0003538	Pa×s	493.16	Joback Method
dvisc	0.0002532	Pa×s	537.99	Joback Method
dvisc	0.0001908	Pa×s	582.83	Joback Method
dvisc	0.0001497	Pa×s	627.67	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C67101637&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/30-172-7/m-Toluic-acid-hexyl-ester.pdf>

Generated by Cheméo on 2025-12-05 17:26:46.248334627 +0000 UTC m=+4703803.778375292.

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