

p-Toluic acid, undec-2-enyl ester

Other names:	p-toluylic acid, undec-2-enyl ester
Inchi:	InChI=1S/C19H28O2/c1-3-4-5-6-7-8-9-10-11-16-21-19(20)18-14-12-17(2)13-15-18/h10-1
InchiKey:	LPDKAMRSUALKNB-ZHACJKMWSA-N
Formula:	C19H28O2
SMILES:	CCCCCCCCC=CCOC(=O)c1ccc(C)cc1
Mol. weight [g/mol]:	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	2237.70		NIST Webbook
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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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U292508&Units=SI
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

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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