

Benzoic acid, 4-tert-butyl-, hexyl ester

Other names:	Hexyl 4-tert-butyl benzoate
Inchi:	InChI=1S/C17H26O2/c1-5-6-7-8-13-19-16(18)14-9-11-15(12-10-14)17(2,3)4/h9-12H,5-8,
InchiKey:	UDLBJVKJBFYKBU-UHFFFAOYSA-N
Formula:	C17H26O2
SMILES:	CCCCCCOC(=O)c1ccc(C(C)(C)C)cc1
Mol. weight [g/mol]:	262.39

Physical Properties

Property code	Value	Unit	Source
gf	-36.04	kJ/mol	Joback Method
hf	-422.70	kJ/mol	Joback Method
hfus	28.81	kJ/mol	Joback Method
hvap	64.23	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.721		Crippen Method
mcvol	234.070	ml/mol	McGowan Method
pc	1640.43	kPa	Joback Method
rinpol	1892.00		NIST Webbook
rinpol	1892.00		NIST Webbook
rinpol	1952.00		NIST Webbook
rinpol	1952.00		NIST Webbook
tb	693.08	K	Joback Method
tc	896.32	K	Joback Method
tf	394.87	K	Joback Method
vc	0.892	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	656.98	J/molxK	693.08	Joback Method
cpg	736.20	J/molxK	862.45	Joback Method
cpg	722.34	J/molxK	828.57	Joback Method
cpg	707.53	J/molxK	794.70	Joback Method
cpg	691.73	J/molxK	760.83	Joback Method

cpg	674.90	J/molxK	726.95	Joback Method
cpg	749.17	J/molxK	896.32	Joback Method
dvisc	0.0000909	Paxs	693.08	Joback Method
dvisc	0.0001201	Paxs	643.38	Joback Method
dvisc	0.0001663	Paxs	593.68	Joback Method
dvisc	0.0002445	Paxs	543.97	Joback Method
dvisc	0.0003882	Paxs	494.27	Joback Method
dvisc	0.0006837	Paxs	444.57	Joback Method
dvisc	0.0013885	Paxs	394.87	Joback Method

Sources

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=U406142&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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