

Ethanol, 2-[4-(1,1-dimethylethyl)phenoxy]-

Other names:	Ethanol, 2-(p-tert-butylphenoxy)- 2-(p-tert-Butylphenoxy)ethanol 2-(p-tert-Butylphenoxy)ethanol «beta»-(p-tert-Butylphenoxy)ethanol 2-(4-tert-Butylphenoxy)ethanol 2-(4-(1,1-Dimethylethyl)phenoxy)ethanol
Inchi:	InChI=1S/C12H18O2/c1-12(2,3)10-4-6-11(7-5-10)14-9-8-13/h4-7,13H,8-9H2,1-3H3
InchiKey:	KGPFHDDLZCYWAO-UHFFFAOYSA-N
Formula:	C12H18O2
SMILES:	CC(C)(C)c1ccc(OCCO)cc1
Mol. weight [g/mol]:	194.27
CAS:	713-46-2

Physical Properties

Property code	Value	Unit	Source
gf	-86.04	kJ/mol	Joback Method
hf	-359.15	kJ/mol	Joback Method
hfus	18.35	kJ/mol	Joback Method
hvap	63.04	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.355		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
rinpol	1519.90		NIST Webbook
tb	616.99	K	Joback Method
tc	814.44	K	Joback Method
tf	349.41	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.50	J/molxK	616.99	Joback Method
cpg	449.54	J/molxK	649.90	Joback Method

cpg	462.77	J/molxK	682.81	Joback Method
cpg	475.22	J/molxK	715.72	Joback Method
cpg	486.93	J/molxK	748.62	Joback Method
cpg	497.93	J/molxK	781.53	Joback Method
cpg	508.26	J/molxK	814.44	Joback Method
dvisc	0.0037828	Paxs	349.41	Joback Method
dvisc	0.0012155	Paxs	394.01	Joback Method
dvisc	0.0004920	Paxs	438.60	Joback Method
dvisc	0.0002353	Paxs	483.20	Joback Method
dvisc	0.0001275	Paxs	527.80	Joback Method
dvisc	0.0000760	Paxs	572.39	Joback Method
dvisc	0.0000488	Paxs	616.99	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C713462&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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