

4-Ethylphenol, pentafluorobenzoyl ester

Inchi:	InChI=1S/C15H9F5O2/c1-2-7-3-5-8(6-4-7)22-15(21)9-10(16)12(18)14(20)13(19)11(9)17
InchiKey:	JQZXOIMRURTMSJ-UHFFFAOYSA-N
Formula:	C15H9F5O2
SMILES:	CCc1ccc(OC(=O)c2c(F)c(F)c(F)c(F)c2F)cc1
Mol. weight [g/mol]:	316.22

Physical Properties

Property code	Value	Unit	Source
gf	-965.51	kJ/mol	Joback Method
hf	-1174.04	kJ/mol	Joback Method
hfus	38.54	kJ/mol	Joback Method
hvap	62.58	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	4.164		Crippen Method
mcvol	190.980	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
rinpola	1680.00		NIST Webbook
rinpola	1685.10		NIST Webbook
rinpola	1682.30		NIST Webbook
rinpola	1680.00		NIST Webbook
tb	698.48	K	Joback Method
tc	895.55	K	Joback Method
tf	461.88	K	Joback Method
vc	0.773	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.33	J/molxK	698.48	Joback Method
cpg	511.95	J/molxK	731.33	Joback Method
cpg	522.86	J/molxK	764.17	Joback Method
cpg	533.06	J/molxK	797.02	Joback Method
cpg	542.56	J/molxK	829.86	Joback Method
cpg	551.36	J/molxK	862.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R434414&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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.chemeo.com/cid/123-836-7/4-Ethylphenol-pentafluorobenzoyl-ester.pdf>

Generated by Cheméo on 2024-04-29 18:12:14.07116784 +0000 UTC m=+16703582.991745152.

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