

2-Ethylhexyl 2-phenoxybenzoate

Inchi:	InChI=1S/C21H26O3/c1-3-5-11-17(4-2)16-23-21(22)19-14-9-10-15-20(19)24-18-12-7-6-8
InchiKey:	MFXGMWHXGXQNKD-UHFFFAOYSA-N
Formula:	C21H26O3
SMILES:	CCCCC(CC)COC(=O)c1ccccc1Oc1ccccc1
Mol. weight [g/mol]:	326.43

Physical Properties

Property code	Value	Unit	Source
gf	-0.23	kJ/mol	Joback Method
hf	-397.48	kJ/mol	Joback Method
hfus	38.29	kJ/mol	Joback Method
hvap	78.73	kJ/mol	Joback Method
log10ws	-6.04		Crippen Method
logp	5.852		Crippen Method
mcvol	272.540	ml/mol	McGowan Method
pc	1537.87	kPa	Joback Method
rinpol	2256.00		NIST Webbook
tb	836.49	K	Joback Method
tc	1055.17	K	Joback Method
tf	471.18	K	Joback Method
vc	1.032	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	824.97	J/molxK	836.49	Joback Method
cpg	841.52	J/molxK	872.94	Joback Method
cpg	856.75	J/molxK	909.38	Joback Method
cpg	870.72	J/molxK	945.83	Joback Method
cpg	883.45	J/molxK	982.28	Joback Method
cpg	894.99	J/molxK	1018.73	Joback Method
cpg	905.39	J/molxK	1055.17	Joback Method
dvisc	0.0006399	Paxs	471.18	Joback Method
dvisc	0.0003217	Paxs	532.07	Joback Method

dvisc	0.0001863	Paxs	592.95	Joback Method
dvisc	0.0001194	Paxs	653.84	Joback Method
dvisc	0.0000826	Paxs	714.72	Joback Method
dvisc	0.0000605	Paxs	775.61	Joback Method
dvisc	0.0000464	Paxs	836.49	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540297&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
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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