

Ethyl 2-phenoxybutyrate

Inchi:	InChI=1S/C12H16O3/c1-3-11(12(13)14-4-2)15-10-8-6-5-7-9-10/h5-9,11H,3-4H2,1-2H3
InchiKey:	IHASFDBVENKSHI-UHFFFAOYSA-N
Formula:	C12H16O3
SMILES:	CCOC(=O)C(CC)Oc1ccccc1
Mol. weight [g/mol]:	208.25

Physical Properties

Property code	Value	Unit	Source
gf	-178.79	kJ/mol	Joback Method
hf	-436.78	kJ/mol	Joback Method
hfus	21.33	kJ/mol	Joback Method
hvap	55.76	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	2.407		Crippen Method
mvol	169.490	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
tb	598.91	K	Joback Method
tc	806.97	K	Joback Method
tf	330.81	K	Joback Method
vc	0.635	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.15	J/molxK	598.91	Joback Method
cpg	435.37	J/molxK	633.59	Joback Method
cpg	449.74	J/molxK	668.26	Joback Method
cpg	463.27	J/molxK	702.94	Joback Method
cpg	475.99	J/molxK	737.62	Joback Method
cpg	487.88	J/molxK	772.30	Joback Method
cpg	498.98	J/molxK	806.97	Joback Method
dvisc	0.0020694	Paxs	330.81	Joback Method

dvisc	0.0010071	Paxs	375.49	Joback Method
dvisc	0.0005713	Paxs	420.18	Joback Method
dvisc	0.0003614	Paxs	464.86	Joback Method
dvisc	0.0002477	Paxs	509.54	Joback Method
dvisc	0.0001805	Paxs	554.23	Joback Method
dvisc	0.0001378	Paxs	598.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R543038&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

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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