

Fenoprofen

Other names:

Benzeneacetic acid, «alpha»-methyl-3-phenoxy-, (.+/-.)-
Hydratropic acid, m-phenoxy-, (.+/-.)-
(.+/-.)-m-Phenoxyhydratropic acid
Lilly-53858

Inchi: InChI=1S/C15H14O3/c1-11(15(16)17)12-6-5-9-14(10-12)18-13-7-3-2-4-8-13/h2-11H,1H3**InchiKey:** RDJGLLICXDHJDY-UHFFFAOYSA-N**Formula:** C15H14O3**SMILES:** CC(C(=O)O)c1cccc(Oc2ccccc2)c1**Mol. weight [g/mol]:** 242.27**CAS:** 31879-05-7

Physical Properties

Property code	Value	Unit	Source
gf	-82.57	kJ/mol	Joback Method
hf	-293.65	kJ/mol	Joback Method
hfus	25.65	kJ/mol	Joback Method
hvap	79.64	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	3.667		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
rinpol	1949.00		NIST Webbook
tb	768.97	K	Joback Method
tc	993.24	K	Joback Method
tf	442.15	K	Joback Method
vc	0.697	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.65	J/molxK	768.97	Joback Method
cpg	570.72	J/molxK	955.86	Joback Method
cpg	562.12	J/molxK	918.48	Joback Method
cpg	552.66	J/molxK	881.10	Joback Method

cpg	542.29	J/molxK	843.73	Joback Method
cpg	530.97	J/molxK	806.35	Joback Method
cpg	578.51	J/molxK	993.24	Joback Method
dvisc	0.0000251	Paxs	768.97	Joback Method
dvisc	0.0000368	Paxs	714.50	Joback Method
dvisc	0.0000575	Paxs	660.03	Joback Method
dvisc	0.0000973	Paxs	605.56	Joback Method
dvisc	0.0001828	Paxs	551.09	Joback Method
dvisc	0.0003944	Paxs	496.62	Joback Method
dvisc	0.0010286	Paxs	442.15	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=C31879057&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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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