Benzoic acid, hex-2-yl ester

Inchi: InChI=1S/C13H18O2/c1-3-4-8-11(2)15-13(14)12-9-6-5-7-10-12/h5-7,9-11H,3-4,8H2,1-2H
InchiKey: RDZOLJBSUTTYRO-UHFFFAOYSA-N
Formula: C13H18O2
SMILES: CCCCC(C)OC(=O)c1ccccc1
Mol. weight [g/mol]: 206.28

Physical Properties

Property code	Value	Unit	Source
gf	-65.37	kJ/mol	Joback Method
hf	-325.20	kJ/mol	Joback Method
hfus	22.73	kJ/mol	Joback Method
hvap	55.58	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	3.422		Crippen Method
mcvol	177.710	ml/mol	McGowan Method
pc	2309.17	kPa	Joback Method
rinpol	1512.00		NIST Webbook
tb	599.37	K	Joback Method
tc	806.35	K	Joback Method
tf	319.85	K	Joback Method
vc	0.673	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.71	J/mol×K	599.37	Joback Method
cpg	515.57	J/mol×K	771.85	Joback Method
cpg	502.95	J/mol×K	737.36	Joback Method
cpg	489.48	J/mol×K	702.86	Joback Method
cpg	475.13	J/mol×K	668.36	Joback Method
cpg	459.89	J/mol×K	633.87	Joback Method
cpg	527.37	J/mol×K	806.35	Joback Method
dvisc	0.0001567	Pa×s	599.37	Joback Method
dvisc	0.0002068	Pa×s	552.78	Joback Method

dvisc	0.0002873	Pa×s	506.20	Joback Method
dvisc	0.0004266	Pa×s	459.61	Joback Method
dvisc	0.0006925	Pa×s	413.02	Joback Method
dvisc	0.0012714	Pa×s	366.44	Joback Method
dvisc	0.0027865	Pa×s	319.85	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U368220&Units=SI

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