

2-phenylethyl levulinate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C13H16O3/c1-11(14)7-8-13(15)16-10-9-12-5-3-2-4-6-12/h2-6H,7-10H2,1H3

FJEDCBJSNFURKI-UHFFFAOYSA-N

C13H16O3

CC(=O)CCC(=O)OCCc1ccccc1

220.26

Physical Properties

Property code	Value	Unit	Source
gf	-191.85	kJ/mol	Joback Method
hf	-432.50	kJ/mol	Joback Method
hfus	27.85	kJ/mol	Joback Method
hvap	62.71	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.141		Crippen Method
mcvol	179.280	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
ripol	2617.00		NIST Webbook
ripol	2617.00		NIST Webbook
tb	653.68	K	Joback Method
tc	863.60	K	Joback Method
tf	384.78	K	Joback Method
vc	0.685	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.59	J/mol×K	653.68	Joback Method
cpg	476.96	J/mol×K	688.67	Joback Method
cpg	490.43	J/mol×K	723.65	Joback Method
cpg	503.02	J/mol×K	758.64	Joback Method
cpg	514.76	J/mol×K	793.62	Joback Method
cpg	525.67	J/mol×K	828.61	Joback Method
cpg	535.78	J/mol×K	863.60	Joback Method
dvisc	0.0017744	Pa×s	384.78	Joback Method

dvisc	0.0009819	Pa×s	429.60	Joback Method
dvisc	0.0006076	Pa×s	474.41	Joback Method
dvisc	0.0004085	Pa×s	519.23	Joback Method
dvisc	0.0002925	Pa×s	564.05	Joback Method
dvisc	0.0002200	Pa×s	608.86	Joback Method
dvisc	0.0001721	Pa×s	653.68	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=R321398&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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