

(E)-Nuciferyl isobutyrate

Inchi:	InChI=1S/C19H28O2/c1-15(2)19(20)21-14-17(4)8-6-5-7-9-18-12-10-16(3)11-13-18/h8,10
InchiKey:	PNFRTFPRRKETBY-CAOOACKPSA-N
Formula:	C19H28O2
SMILES:	CC(=CCCCc1ccc(C)cc1)COC(=O)C(C)C
Mol. weight [g/mol]:	288.42

Physical Properties

Property code	Value	Unit	Source
gf	47.19	kJ/mol	Joback Method
hf	-353.08	kJ/mol	Joback Method
hfus	36.77	kJ/mol	Joback Method
hvap	69.63	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	4.853		Crippen Method
mvol	257.950	ml/mol	McGowan Method
pc	1462.37	kPa	Joback Method
rinpol	1975.00		NIST Webbook
rinpol	1975.00		NIST Webbook
tb	745.67	K	Joback Method
tc	948.22	K	Joback Method
tf	380.95	K	Joback Method
vc	0.991	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.16	J/mol×K	745.67	Joback Method
cpg	762.09	J/mol×K	779.43	Joback Method
cpg	778.95	J/mol×K	813.19	Joback Method
cpg	794.80	J/mol×K	846.94	Joback Method
cpg	809.68	J/mol×K	880.70	Joback Method
cpg	823.64	J/mol×K	914.46	Joback Method
cpg	836.72	J/mol×K	948.22	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=R233073&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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