

(E)-nuciferyl butanoate

Inchi:	InChI=1S/C18H26O2/c1-4-9-18(19)20-14-15(2)10-8-11-16(3)17-12-6-5-7-13-17/h5-7,10,
InchiKey:	DRIYSCTYBGABSN-XNTDXEJSSA-N
Formula:	C18H26O2
SMILES:	CCCC(=O)OCC(C)=CCCC(C)c1ccccc1
Mol. weight [g/mol]:	274.40

Physical Properties

Property code	Value	Unit	Source
gf	48.40	kJ/mol	Joback Method
hf	-320.97	kJ/mol	Joback Method
hfus	34.57	kJ/mol	Joback Method
hvap	66.74	kJ/mol	Joback Method
log10ws	-5.14		Crippen Method
logp	4.860		Crippen Method
mcvol	243.860	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinsol	2004.00		NIST Webbook
tb	717.81	K	Joback Method
tc	921.52	K	Joback Method
tf	357.16	K	Joback Method
vc	0.934	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	687.95	J/molxK	717.81	Joback Method
cpg	705.77	J/molxK	751.76	Joback Method
cpg	722.51	J/molxK	785.71	Joback Method
cpg	738.23	J/molxK	819.67	Joback Method
cpg	752.98	J/molxK	853.62	Joback Method
cpg	766.81	J/molxK	887.57	Joback Method
cpg	779.76	J/molxK	921.52	Joback Method

Sources

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=R420361&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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

Latest version available from:

<https://www.chemeo.com/cid/89-185-9/E-nuciferyl-butanoate.pdf>

Generated by Cheméo on 2024-04-29 22:23:07.66491281 +0000 UTC m=+16718636.585490122.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.