

2-(Octyloxycarbonyl)benzoic acid

Other names:	2-(Octyloxycarbonyl)benzoic acid
Inchi:	InChI=1S/C16H22O4/c1-2-3-4-5-6-9-12-20-16(19)14-11-8-7-10-13(14)15(17)18/h7-8,10-
InchiKey:	PKIYFBICNICNGJ-UHFFFAOYSA-N
Formula:	C16H22O4
SMILES:	CCCCCCCCOC(=O)c1cccc1C(=O)O
Mol. weight [g/mol]:	278.35

Physical Properties

Property code	Value	Unit	Source
af	1.0322		Cheméo Relay (1.0)
hf	-765.05	kJ/mol	Cheméo Relay (1.0)
hfus	39.32	kJ/mol	Joback Method
hvap	109.70	kJ/mol	Cheméo Relay (1.0)
ie	9.29	eV	Cheméo Relay (1.0)
log10ws	-4.58		Cheméo Relay (1.0)
logp	3.902		Crippen Method
mcvol	227.420	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	2236.00		NIST Webbook
rinpol	2236.00		NIST Webbook
tb	615.22	K	Cheméo Relay (1.0)
tc	851.09	K	Cheméo Relay (1.0)
tf	347.63	K	Cheméo Relay (1.0)
vc	0.842	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.76	J/mol×K	819.48	Joback Method
cpg	691.54	J/mol×K	852.53	Joback Method
cpg	703.46	J/mol×K	885.57	Joback Method
cpg	714.54	J/mol×K	918.62	Joback Method
cpg	724.81	J/mol×K	951.66	Joback Method
cpg	734.30	J/mol×K	984.71	Joback Method

cpg	743.02	J/mol×K	1017.75	Joback Method
dvisc	0.0006051	Pa×s	491.93	Joback Method
dvisc	0.0002614	Pa×s	546.52	Joback Method
dvisc	0.0001315	Pa×s	601.11	Joback Method
dvisc	0.0000742	Pa×s	655.70	Joback Method
dvisc	0.0000457	Pa×s	710.30	Joback Method
dvisc	0.0000302	Pa×s	764.89	Joback Method
dvisc	0.0000211	Pa×s	819.48	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5393191&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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

Latest version available from:

<https://www.cheméo.com/cid/82-409-7/2-Octyloxycarbonyl-benzoic-acid.pdf>

Generated by Cheméo on 2026-07-21 11:15:50.729822431 +0000 UTC m=+143646.571707811.

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