

Benzyl docosanoate

Inchi: InChI=1S/C29H50O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-23-26-29(30)31
InchiKey: FYOGVGKALAEVBF-UHFFFAOYSA-N
Formula: C29H50O2
SMILES: CCCCCCCCCCCCCCCCCCCCCC(=O)OCc1ccccc1
Mol. weight [g/mol]: 430.72

Physical Properties

Property code	Value	Unit	Source
af	1.2238		Cheméo Relay (1.0)
gf	71.79	kJ/mol	Joback Method
hf	-703.03	kJ/mol	Cheméo Relay (1.0)
hfus	67.69	kJ/mol	Joback Method
hvap	134.25	kJ/mol	Cheméo Relay (1.0)
ie	9.35	eV	Cheméo Relay (1.0)
log10ws	-8.93		Cheméo Relay (1.0)
logp	9.552		Crippen Method
mcvol	403.150	ml/mol	McGowan Method
pc	761.00	kPa	Joback Method
rinpol	3305.80		NIST Webbook
rinpol	3305.80		NIST Webbook
tb	672.39	K	Cheméo Relay (1.0)
tc	879.71	K	Cheméo Relay (1.0)
tf	313.53	K	Cheméo Relay (1.0)
vc	1.547	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1384.52	J/mol×K	965.89	Joback Method
cpg	1405.79	J/mol×K	1002.36	Joback Method
cpg	1425.55	J/mol×K	1038.82	Joback Method
cpg	1443.89	J/mol×K	1075.29	Joback Method
cpg	1460.89	J/mol×K	1111.75	Joback Method
cpg	1476.64	J/mol×K	1148.22	Joback Method

cpg	1491.24	J/mol×K	1184.68	Joback Method
dvisc	0.0004593	Pa×s	515.17	Joback Method
dvisc	0.0001962	Pa×s	590.29	Joback Method
dvisc	0.0001016	Pa×s	665.41	Joback Method
dvisc	0.0000601	Pa×s	740.53	Joback Method
dvisc	0.0000392	Pa×s	815.65	Joback Method
dvisc	0.0000274	Pa×s	890.77	Joback Method
dvisc	0.0000203	Pa×s	965.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C85263747&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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):	

Legend

af:	Acentric Factor
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
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.chemeo.com/cid/83-079-3/Benzyl-docosanoate.pdf>

Generated by Cheméo on 2026-07-22 00:27:45.852993279 +0000 UTC m=+191161.694878673.

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