

Hexacosanol, acetate

Other names:	n-Hexacosyl acetate Acetic acid, hexacosyl ester Cetyl alcohol acetate
Inchi:	InChI=1S/C28H56O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28
InchiKey:	TXJQEFZXBSKQGU-UHFFFAOYSA-N
Formula:	C28H56O2
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCOC(=O)C
Mol. weight [g/mol]:	424.75

Physical Properties

Property code	Value	Unit	Source
af	1.2460		Cheméo Relay (1.0)
gf	-49.04	kJ/mol	Joback Method
hf	-949.36	kJ/mol	Cheméo Relay (1.0)
hfus	71.06	kJ/mol	Joback Method
hvap	143.10	kJ/mol	Cheméo Relay (1.0)
ie	10.03	eV	Cheméo Relay (1.0)
log10ws	-9.34		Cheméo Relay (1.0)
logp	9.932		Crippen Method
mcvol	412.820	ml/mol	McGowan Method
pc	671.16	kPa	Joback Method
rinpol	2995.60		NIST Webbook
rinpol	2995.60		NIST Webbook
rinpol	3010.10		NIST Webbook
tb	645.40	K	Cheméo Relay (1.0)
tc	827.09	K	Cheméo Relay (1.0)
tf	332.53	K	Cheméo Relay (1.0)
vc	1.632	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1416.23	J/mol×K	916.33	Joback Method
cpg	1540.54	J/mol×K	1129.21	Joback Method

cpg	1523.34	J/mol×K	1093.73	Joback Method
cpg	1504.83	J/mol×K	1058.25	Joback Method
cpg	1484.93	J/mol×K	1022.77	Joback Method
cpg	1463.57	J/mol×K	987.29	Joback Method
cpg	1440.70	J/mol×K	951.81	Joback Method
dvisc	0.0000717	Pa×s	696.90	Joback Method
dvisc	0.0000230	Pa×s	916.33	Joback Method
dvisc	0.0000314	Pa×s	843.19	Joback Method
dvisc	0.0000457	Pa×s	770.05	Joback Method
dvisc	0.0006385	Pa×s	477.48	Joback Method
dvisc	0.0001253	Pa×s	623.76	Joback Method
dvisc	0.0002539	Pa×s	550.62	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=C822322&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
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

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