(Z)-Deca-8-en-4,6-diyn-1-yl palmitate

Inchi: InChI=1S/C26H42O2/c1-3-5-7-9-11-13-14-15-16-17-18-20-22-24-26(27)28-25-23-21-19-
InchiKey: SLZAXWZQADGAMO-XQRVVYSFSA-N
Formula: C26H42O2
SMILES: CC=CC#CC#CCCCOC(=O)CCCCCCCCCCCCCCC
Mol. weight [g/mol]: 386.61

Physical Properties

Property code	Value	Unit	Source
gf	419.94	kJ/mol	Joback Method
hf	-162.95	kJ/mol	Joback Method
hfus	72.33	kJ/mol	Joback Method
hvap	86.89	kJ/mol	Joback Method
log10ws	-9.01		Crippen Method
logp	7.374		Crippen Method
mcvol	363.140	ml/mol	McGowan Method
pc	920.50	kPa	Joback Method
rinpol	2989.50		NIST Webbook
rinpol	2989.50		NIST Webbook
tb	892.73	K	Joback Method
tc	1095.60	K	Joback Method
tf	662.06	K	Joback Method
vc	1.419	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1156.23	J/mol×K	892.73	Joback Method
cpg	1176.08	J/mol×K	926.54	Joback Method
cpg	1194.80	J/mol×K	960.35	Joback Method
cpg	1212.45	J/mol×K	994.16	Joback Method
cpg	1229.07	J/mol×K	1027.97	Joback Method
cpg	1244.74	J/mol×K	1061.79	Joback Method
cpg	1259.49	J/mol×K	1095.60	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U414342&Units=SI

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
hvap:	Enthalpy of vaporization at standard conditions
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