.delta.-Sodium palmitate

Other names: «delta»-Sodium palmitate
Inchi: InChI=1S/C16H32O2.Na/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16(17)18;/h2-15H2,1H3,
InchiKey: GGXKEBACDBNFAF-UHFFFAOYSA-M
Formula: C16H31NaO2
SMILES: CCCCCCCCCCCCCCCC(=O)[O-].[Na+]
Mol. weight [g/mol]: 278.41

Physical Properties

Property code	Value	Unit	Source
af	0.7598		Cheméo Relay (1.0)
gf	-71.53	kJ/mol	Cheméo Relay (1.0, beta)
hf	-872.69	kJ/mol	Cheméo Relay (1.0)
hvap	93.86	kJ/mol	Cheméo Relay (1.0)
ie	8.05	eV	Cheméo Relay (1.0)
log10ws	-6.21		Cheméo Relay (1.0)
pc	1077.66	kPa	Cheméo Relay (1.0, beta)
ss	474.50	J/mol×K	NIST Webbook
ss	472.80	J/mol×K	NIST Webbook
ss	499.20	J/mol×K	NIST Webbook
ss	500.80	J/mol×K	NIST Webbook
ss	518.40	J/mol×K	NIST Webbook
ss	476.10	J/mol×K	NIST Webbook
tb	725.64	K	Cheméo Relay (1.0)
tc	931.18	K	Cheméo Relay (1.0)
tf	506.22	K	Cheméo Relay (1.0)
vc	0.910	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	449.40	J/mol×K	298.15	NIST Webbook
cps	495.00	J/mol×K	298.15	NIST Webbook
cps	462.80	J/mol×K	298.15	NIST Webbook
cps	481.20	J/mol×K	298.15	NIST Webbook

cps	476.60	J/mol×K	298.15	NIST Webbook
cps	501.70	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C408355&Units=SI

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

af: Acentric Factor
cps: Solid phase heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
pc: Critical Pressure
ss: Solid phase molar entropy at standard conditions
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume