

NMEA-GDGT

Description:

Modified GDGT from *Sulfolobus acidocaldarius* for investigational use only.

Sample information:

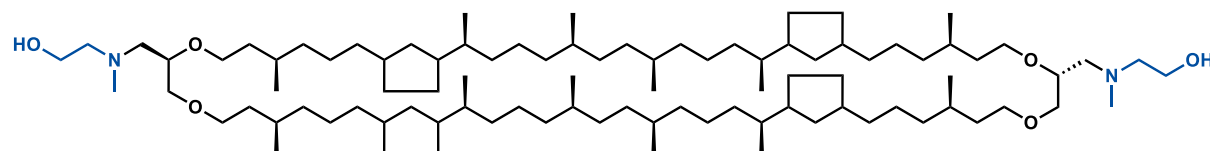
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|----------------------------------|--|
| Product name | N-(methylethanol)-amine-GDGT |
| Cat.# | 69756 |
| Physical appearance | colorless to slightly yellow oil |
| Apparent pKa value | 6.61 |
| Solubility in ethanol | 80 mg/mL |
| Solubility in <i>i</i> -propanol | 80 mg/mL |
| Shipment | ambient temperature, packed under N ₂ |
| Storage | -20 °C |

Sample composition:

| Lipid component | Chemical formula | Purity ² | Molecular mass (g/mol) |
|------------------------|--|---------------------|------------------------|
| NMEA-GDGT ¹ | C ₉₂ H ₁₇₈ N ₂ O ₆ | >95% | 1408.44 |

GDGT... glycerol dialkyl glycerol tetraether

Structure:



Handling information:

Recommended solvents: dissolves in all common organic solvents (e.g. diethylether, dichloromethane, chloroform, THF, *i*-propanol, DMSO...)

The compound is stored under N₂ atmosphere.

For formulation experiments ethanol *absolute* or pure *i*-propanol are recommended as solvent. Note that traces of water, e.g. due to usage of ethanol 96%, lead to formation of a cloudy suspension.

To quantitatively dissolve the product in the original container it is recommended to thoroughly rinse the whole vial and cap with solvent.

¹ The GDGT moiety naturally occurs with 0 to 8 cyclopentane rings, resulting in minor deviations of the molecular mass.

² Based on NMR