For illustrative purposes:

Calculation of Upper-Limit MIR for Methyl Ethyl Ketoxime:

Number of Carbons: 4
Molecular Weight of Methyl Ethyl Ketoxime: 87.121 g / mole
Molecular Weight of Ozone: 47.998 g / mole

Upper-Limit Kinetic Reactivity (ULKR)= 1
Upper-Limit Mechanistic Reactivity (ULMR)
= minimum of {7 x Number of Carbons, or 35}

ULKR = 1
ULMR = minimum of {28, 35} = 28

Upper-Limit MIR = ULKR x ULMR x Conversion Factor (into gram basis)
= 1 x 28 x (47.998 / 87.121)
= 15.43 g ozone formed per g methyl ethyl ketoxime

For illustrative purposes:

Calculation of Upper-Limit MIR for Morpholine:

Number of Carbons: 4
Molecular Weight of Morpholine:
87.121 g / mole
Molecular Weight of Ozone: 47.998 g / mole

Upper-Limit Kinetic Reactivity (ULKR)= 1
Upper-Limit Mechanistic Reactivity (ULMR)
= minimum of {7 x Number of Carbons, or 35}

ULKR = 1
ULMR = minimum of {28, 35} = 28

Upper-Limit MIR = ULKR x ULMR x Conversion Factor (into gram basis)
= 1 x 28 x (47.998 / 87.121)
= 15.43 g ozone formed per g morpholine

For illustrative purposes:

Calculation of Upper-Limit MIR for Diethylenetriamine:

Number of Carbons: 4
Molecular Weight of Diethylenetriamine: 103.167 g / mole
Molecular Weight of Ozone: 47.998 g / mole

Upper-Limit Kinetic Reactivity (ULKR)= 1
Upper-Limit Mechanistic Reactivity (ULMR)
= minimum of {7 x Number of Carbons, or 35}

ULKR = 1
ULMR = minimum of {28, 35} = 28

Upper-Limit MIR = ULKR x ULMR x Conversion Factor (into gram basis)
= 1 x 28 x (47.998 / 103.167)
= 13.03 g ozone formed per g diethylenetriamine

For illustrative purposes:

Calculation of Upper-Limit MIR for Triethylamine:

Number of Carbons: 6
Molecular Weight of Triethylamine: 101.191 g / mole
Molecular Weight of Ozone: 47.998 g / mole

Upper-Limit Kinetic Reactivity (ULKR)= 1
Upper-Limit Mechanistic Reactivity (ULMR)
= minimum of {7 x Number of Carbons, or 35}

ULKR = 1
ULMR = minimum of {42, 35} = 35

Upper-Limit MIR = ULKR x ULMR x Conversion Factor (into gram basis)
= 1 x 35 x (47.998 / 101.191)
= 16.60 g ozone formed per g triethylamine